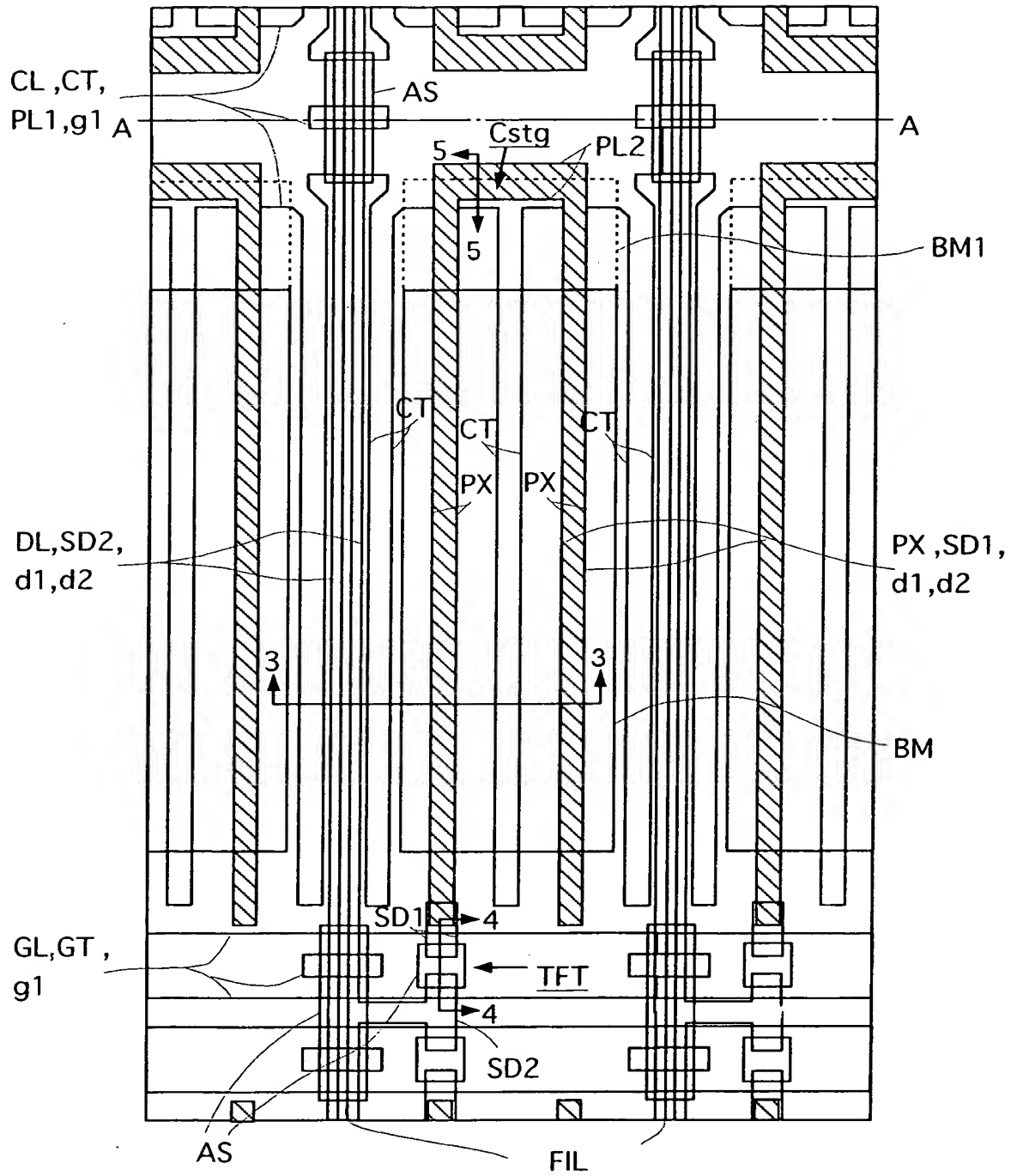


FIG. 1



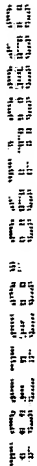


FIG.3

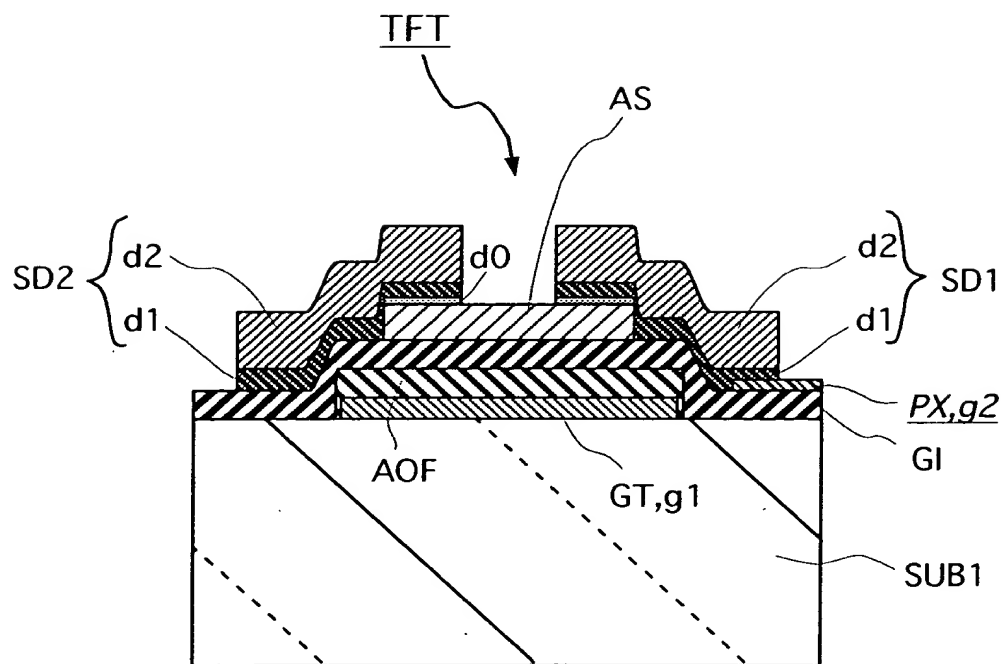


FIG.4

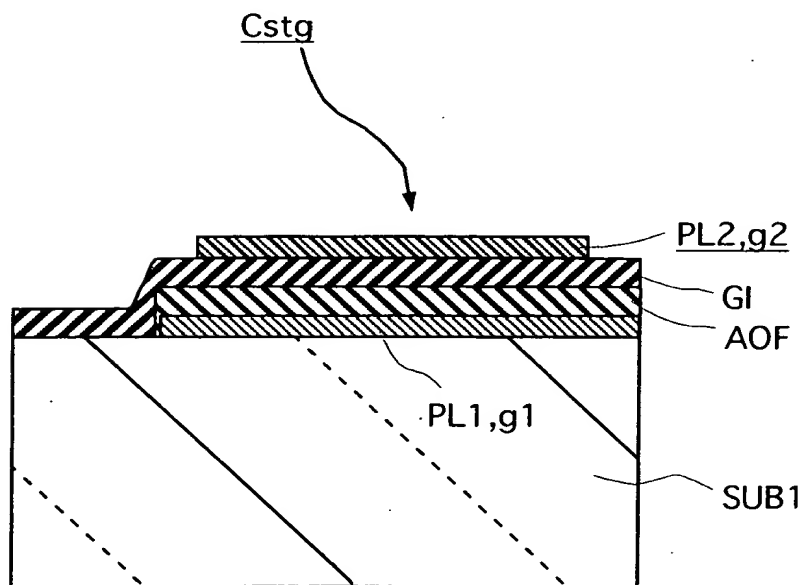


FIG. 5

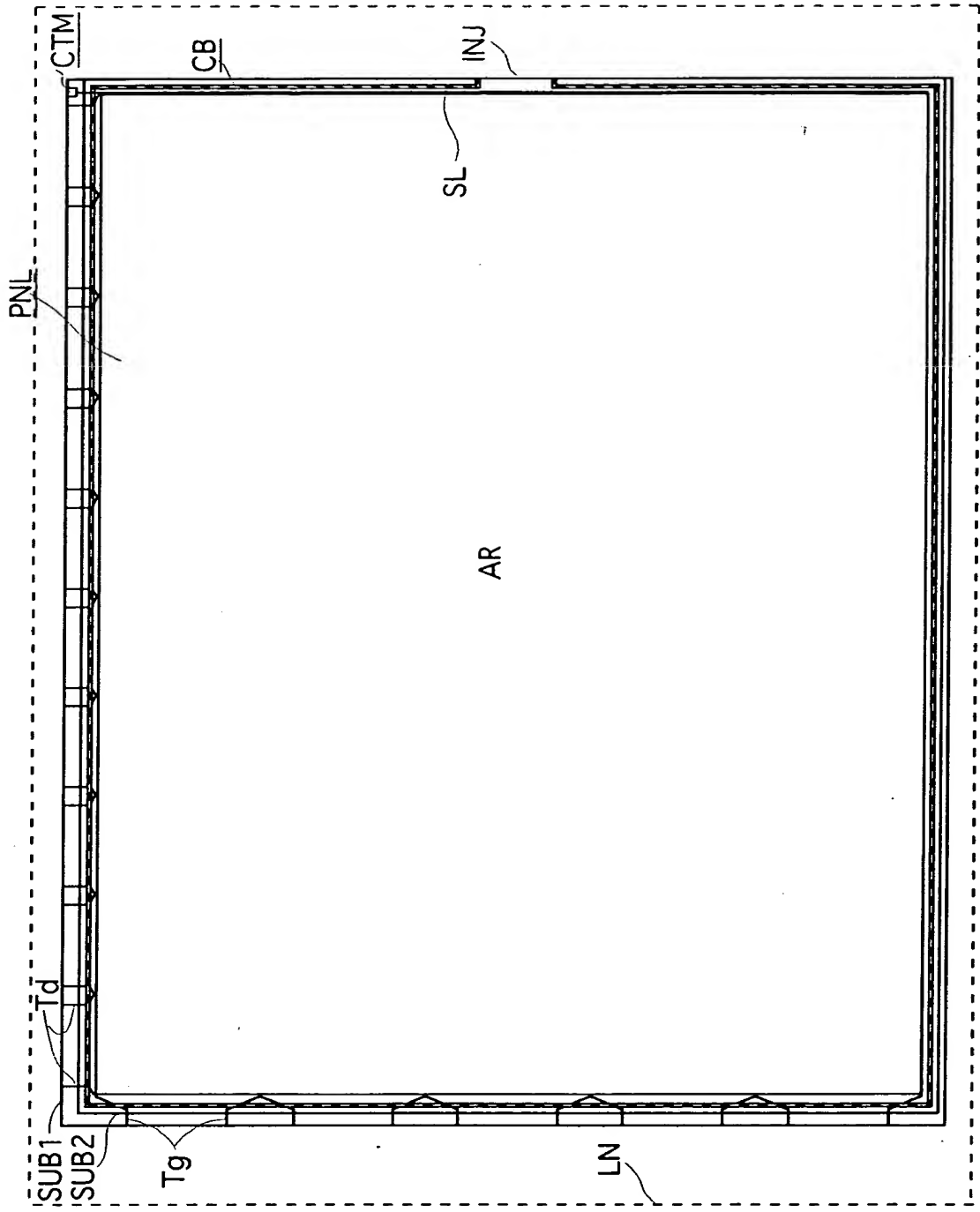


FIG. 6

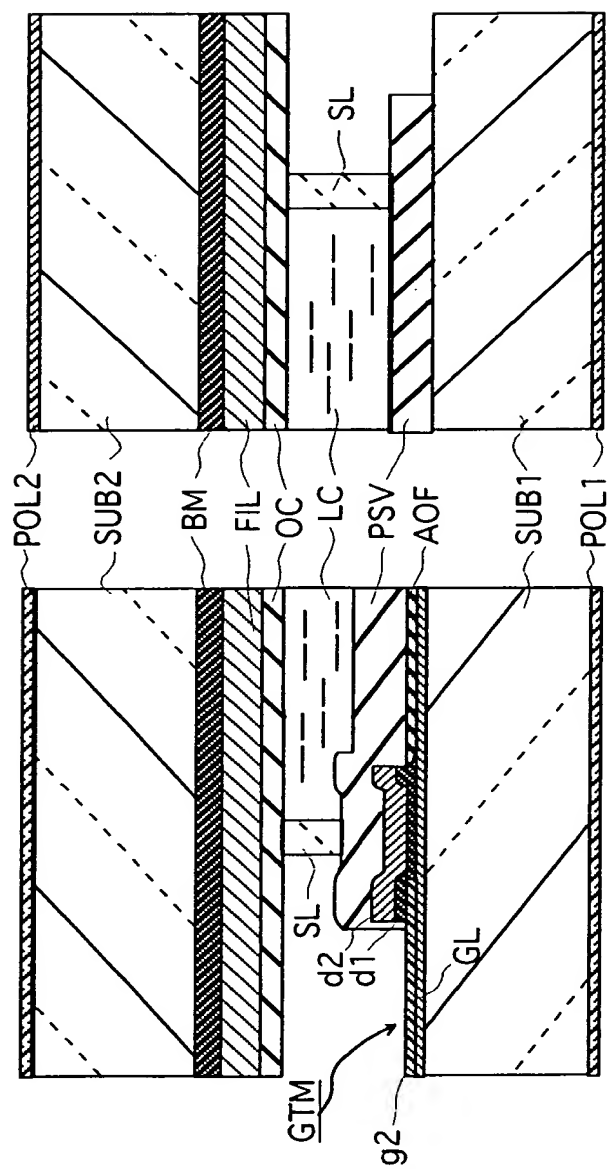


FIG. 7A

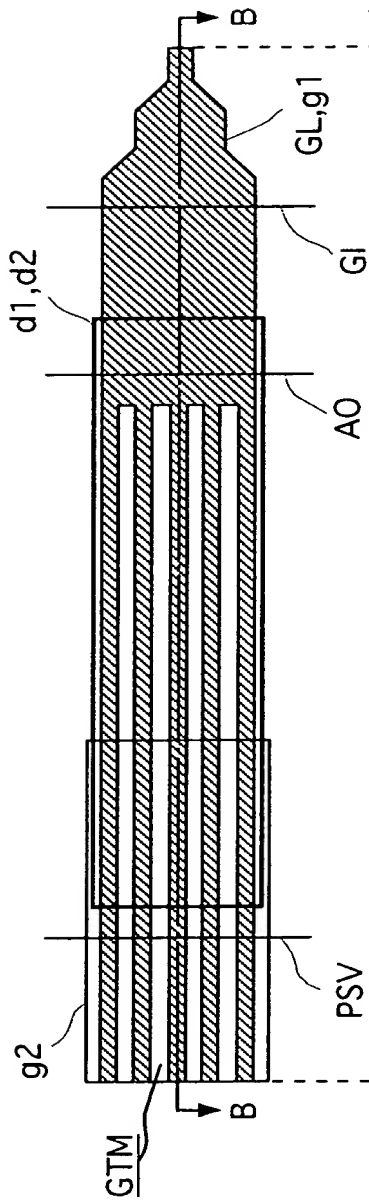


FIG. 7B

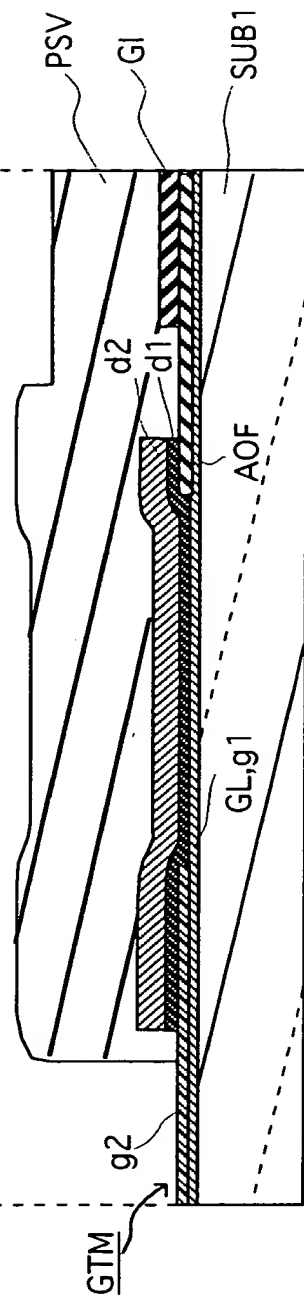


FIG. 8A

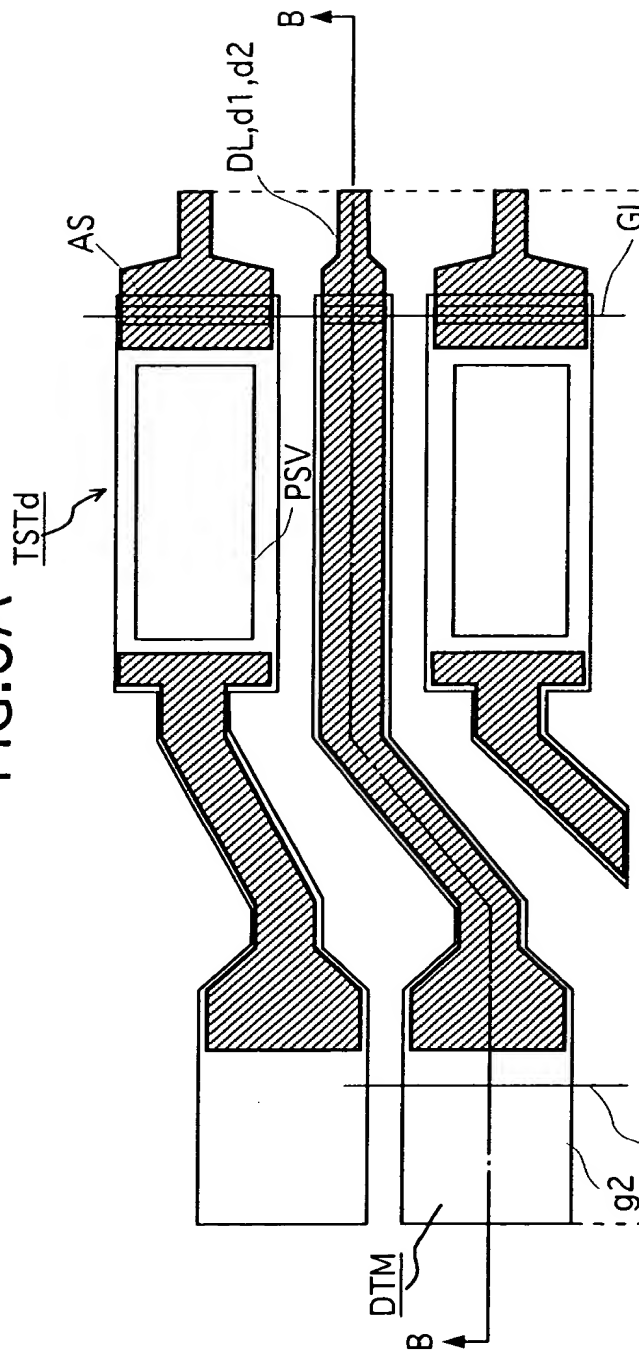


FIG. 8B

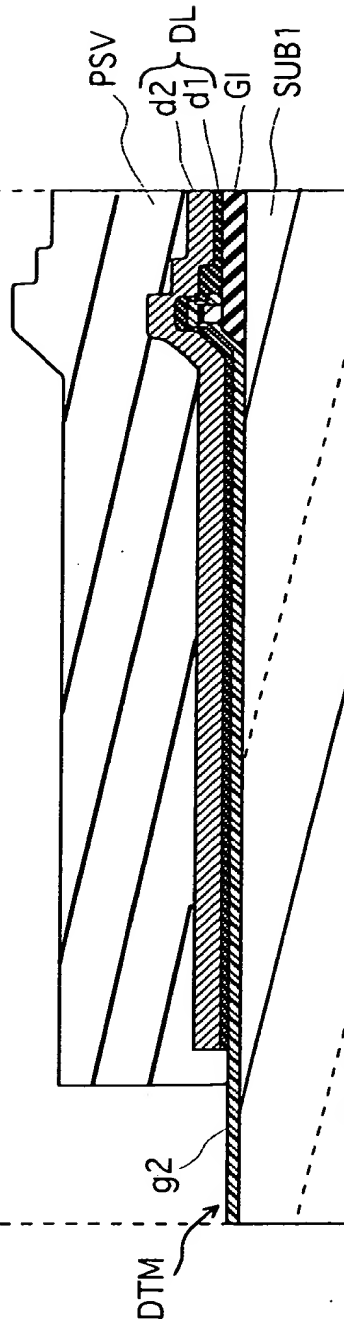


FIG.9A

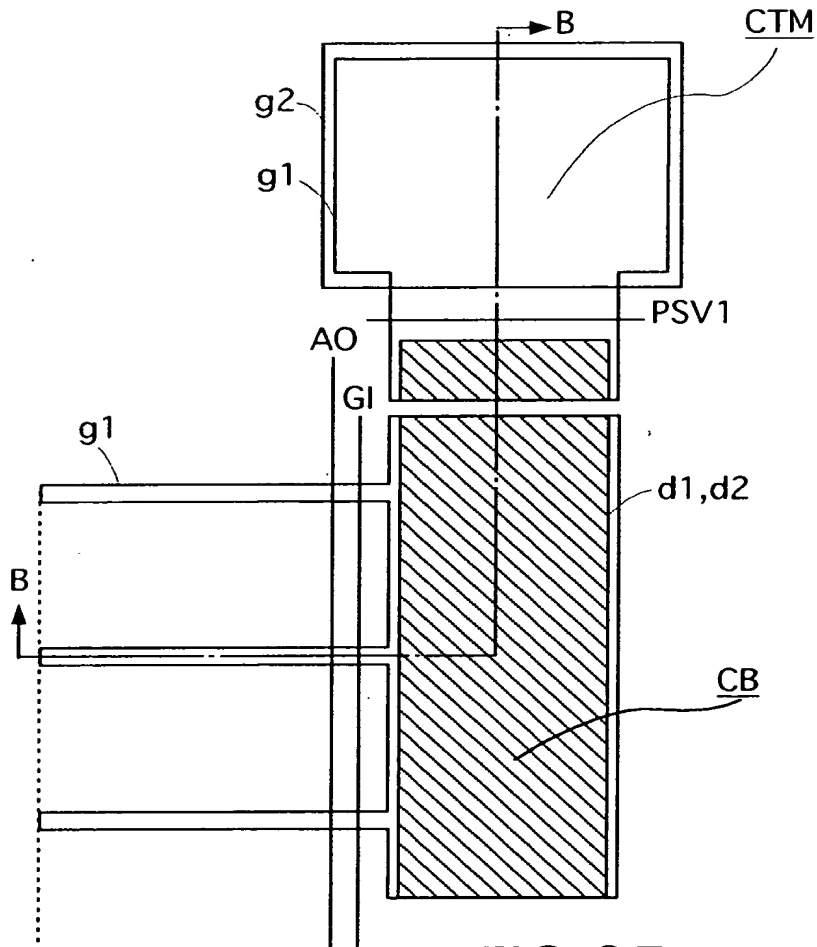


FIG.9B

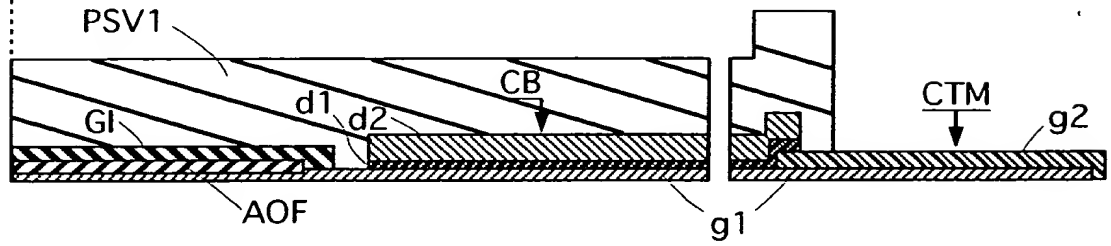


FIG. 10

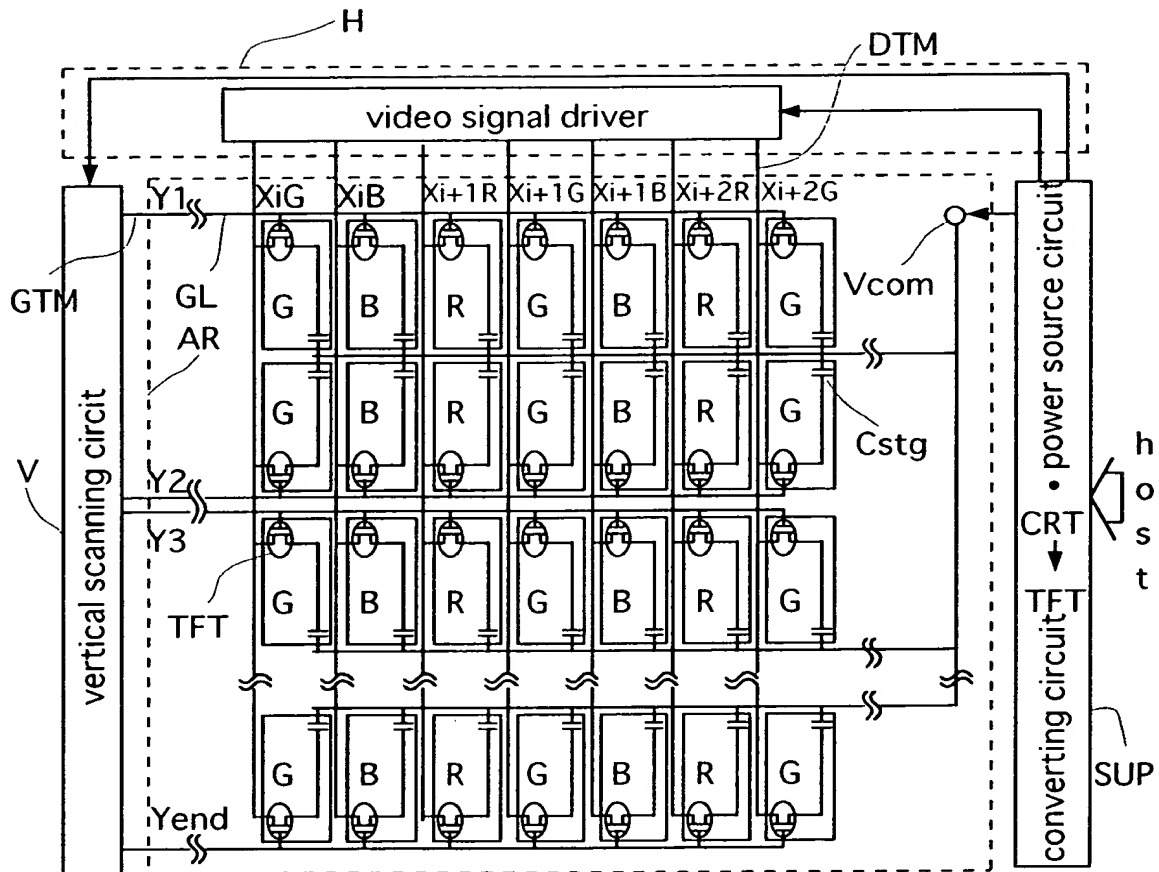


FIG.1 1

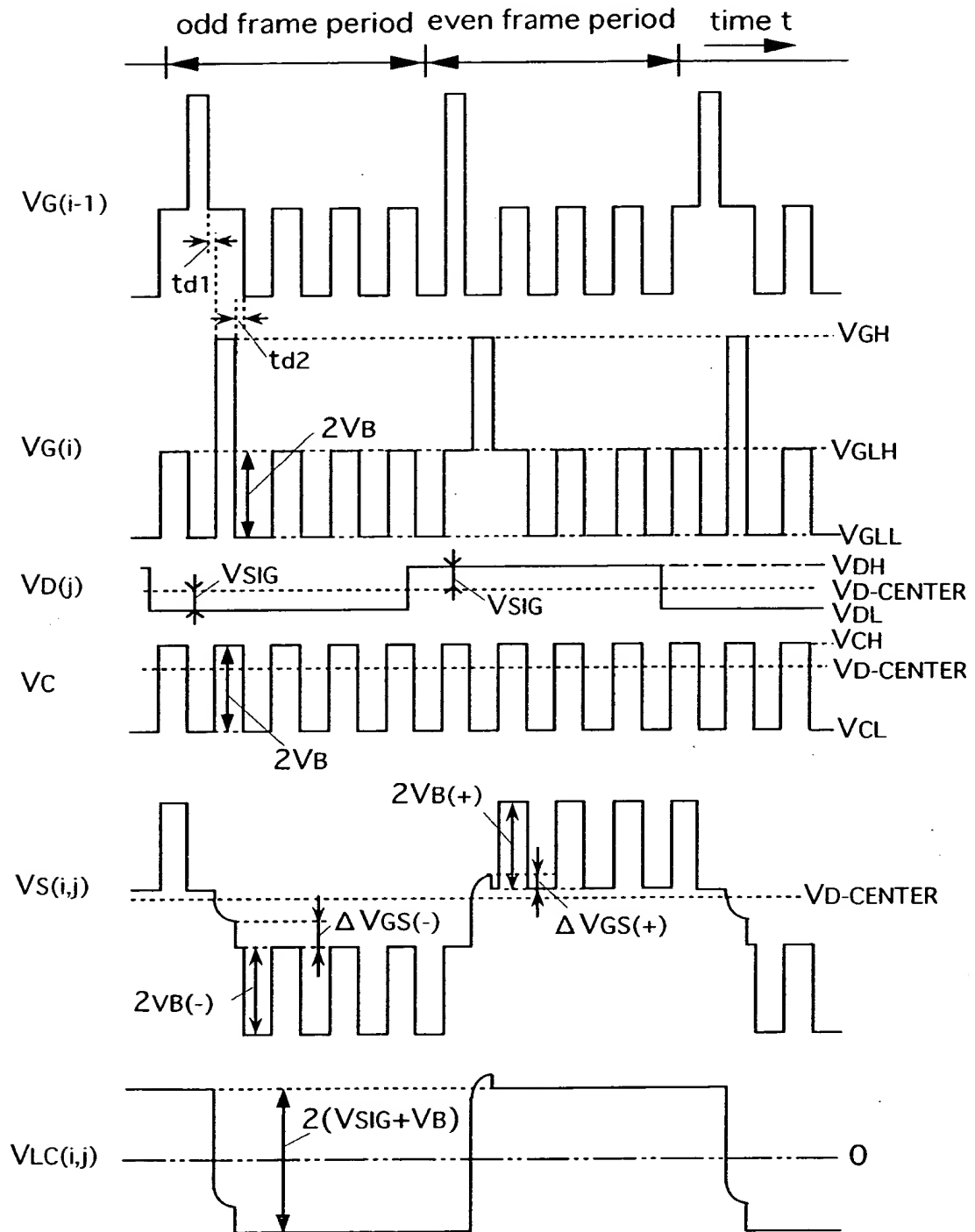


FIG.12

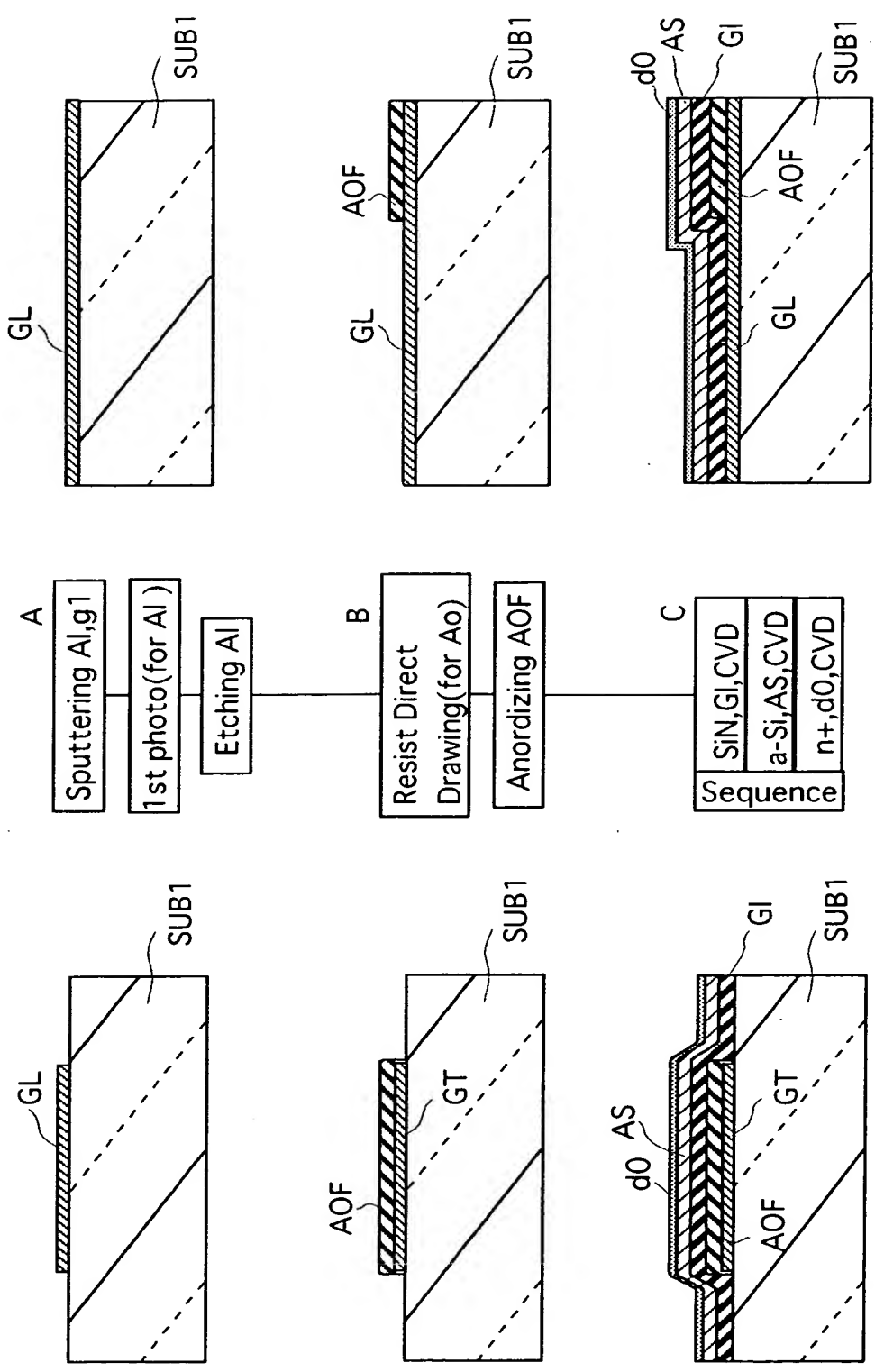


FIG. 13

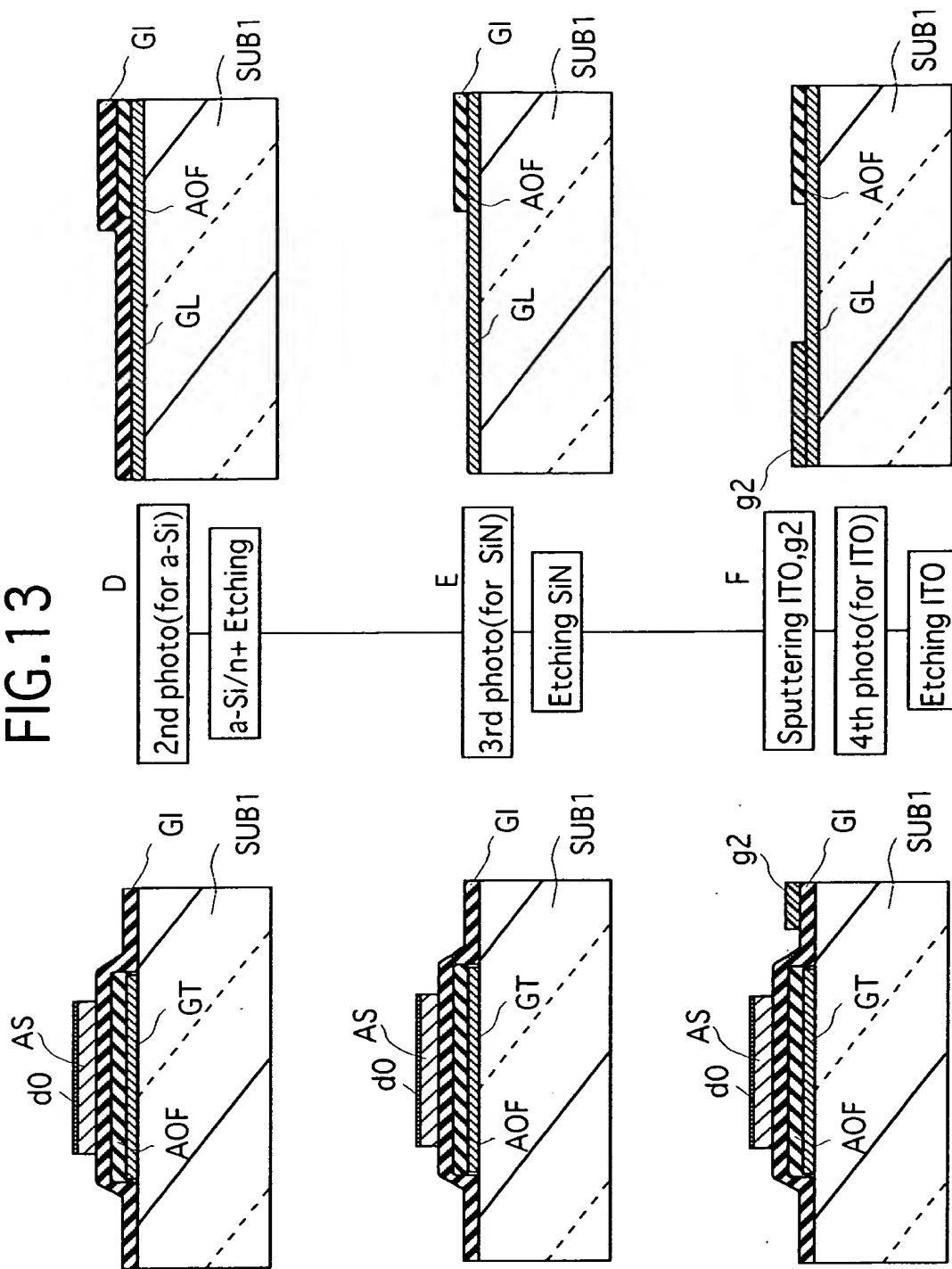


FIG.14

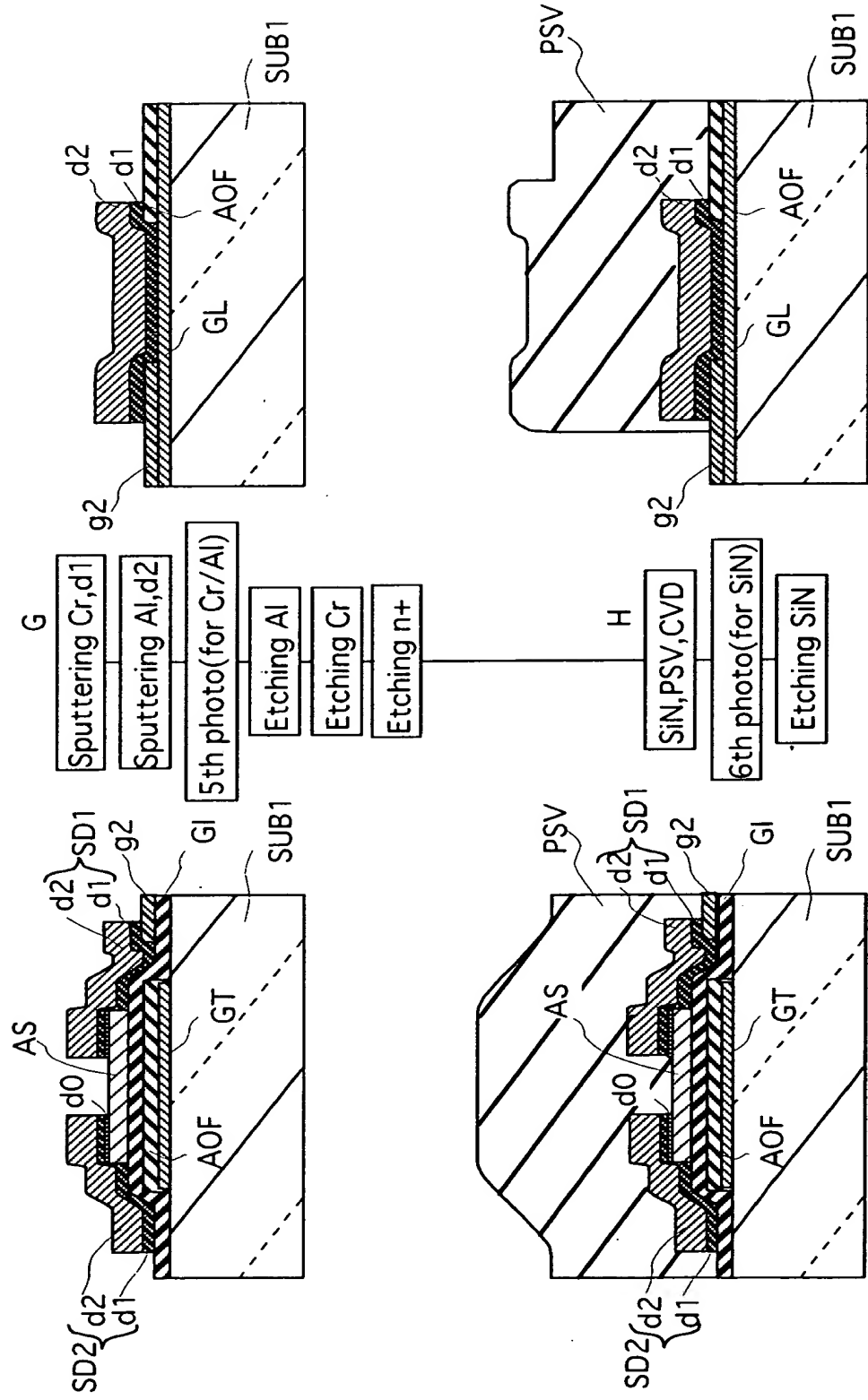


FIG.1 5

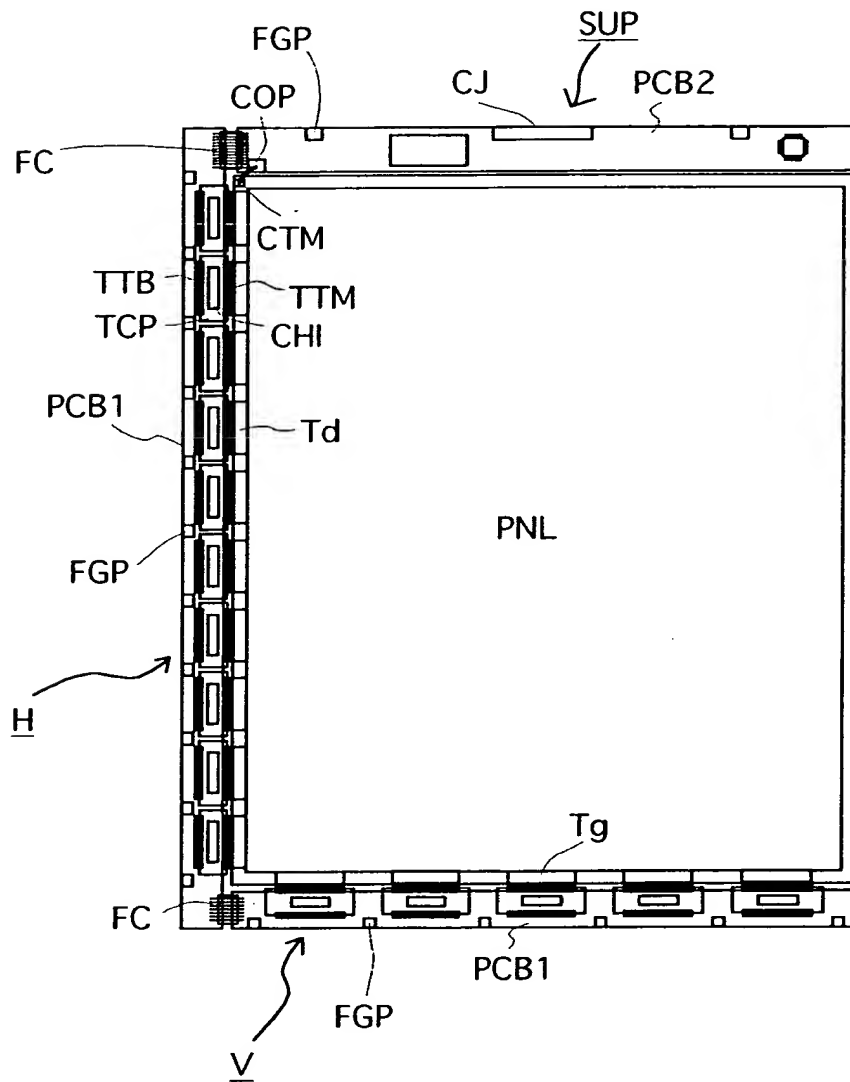


FIG.16

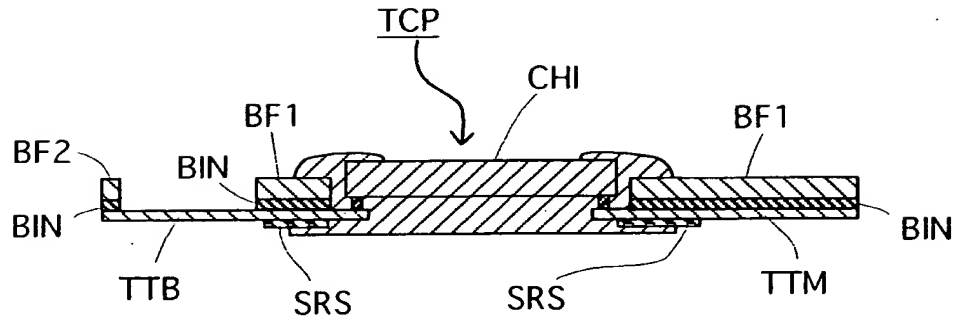


FIG.17

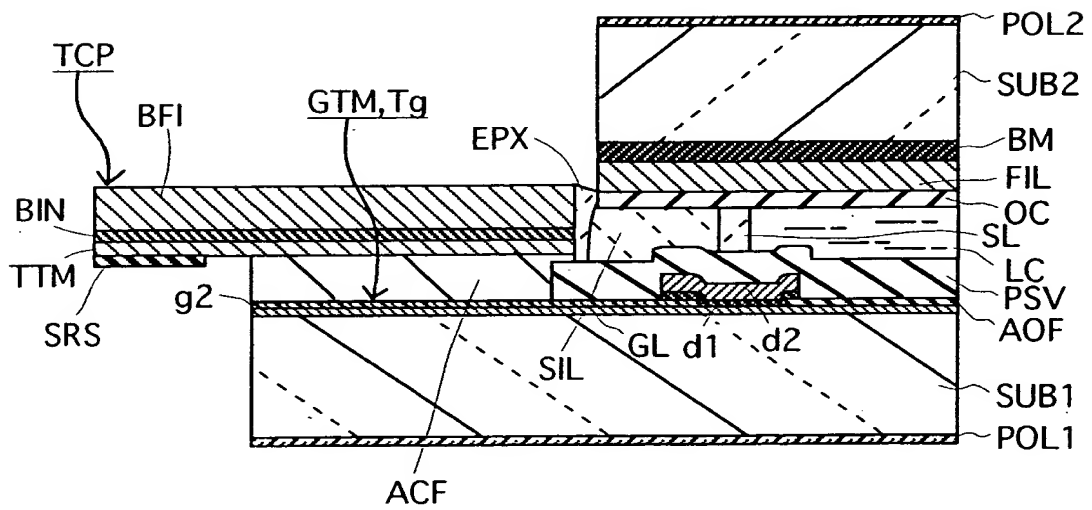


FIG.18

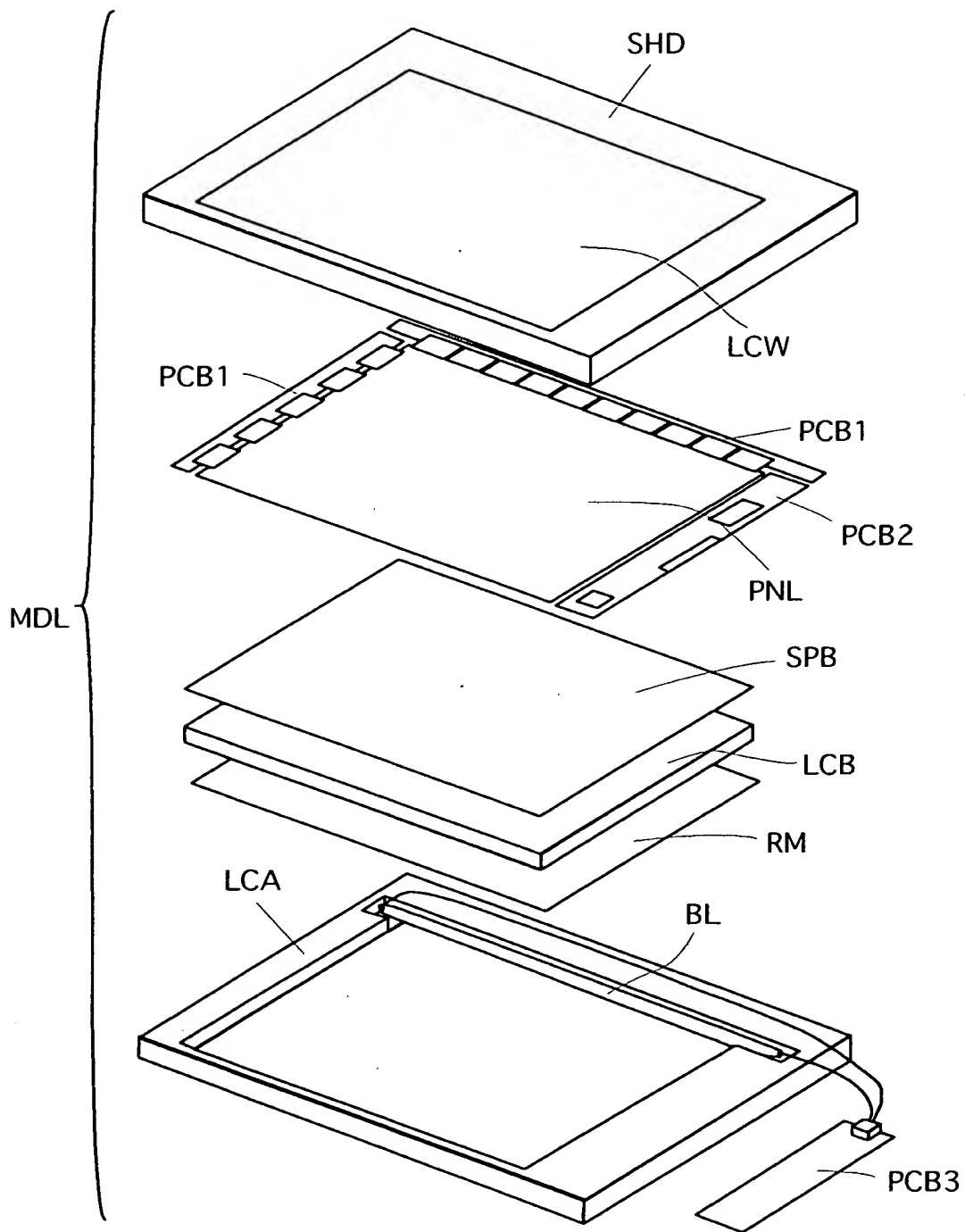


FIG.19

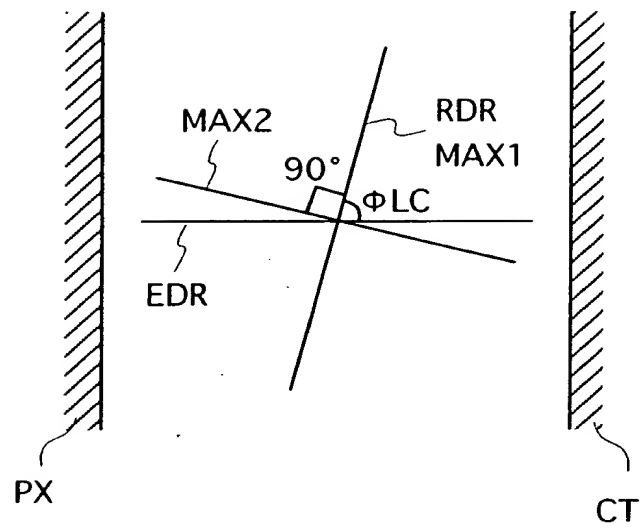


FIG.20

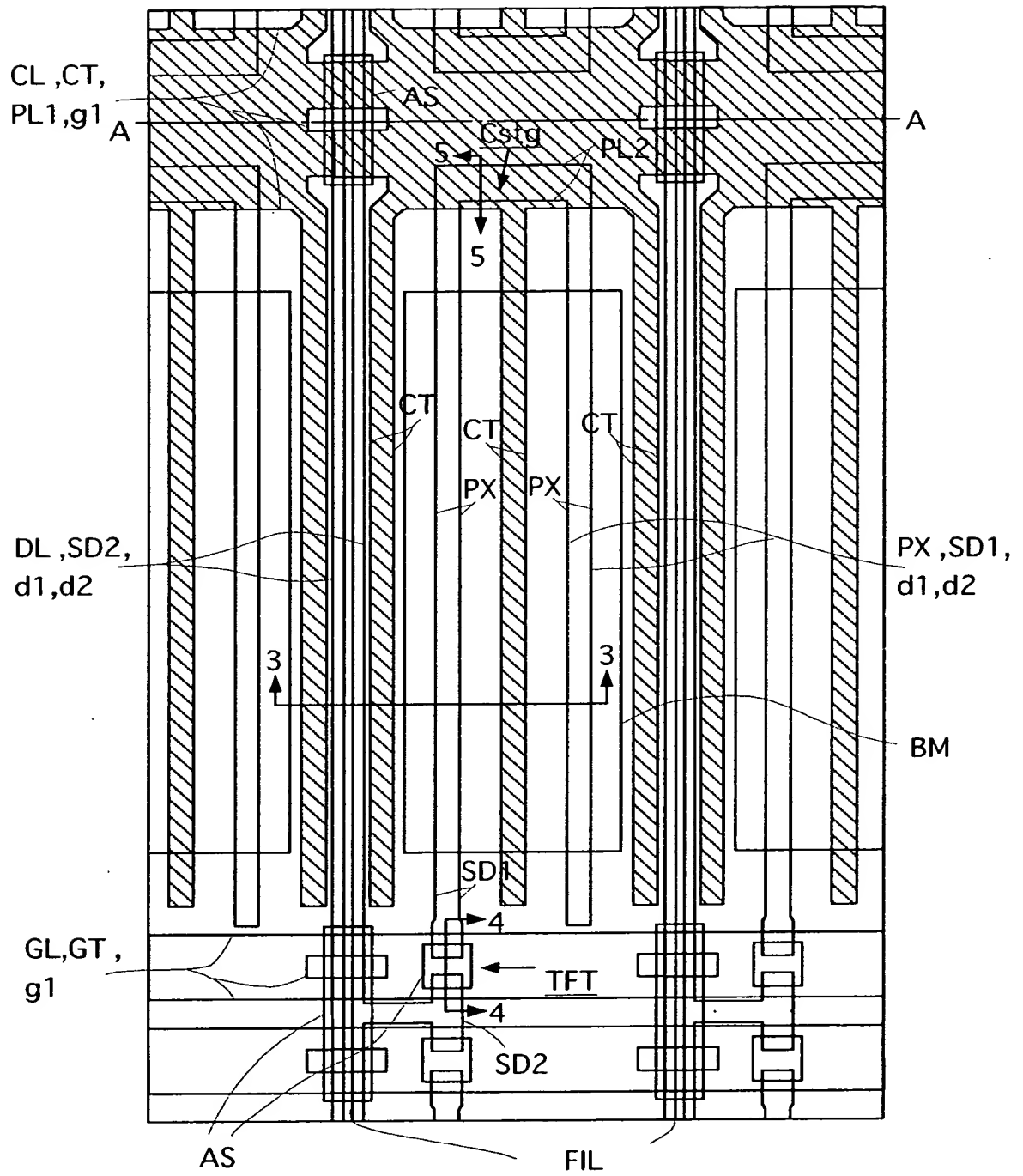


FIG.21

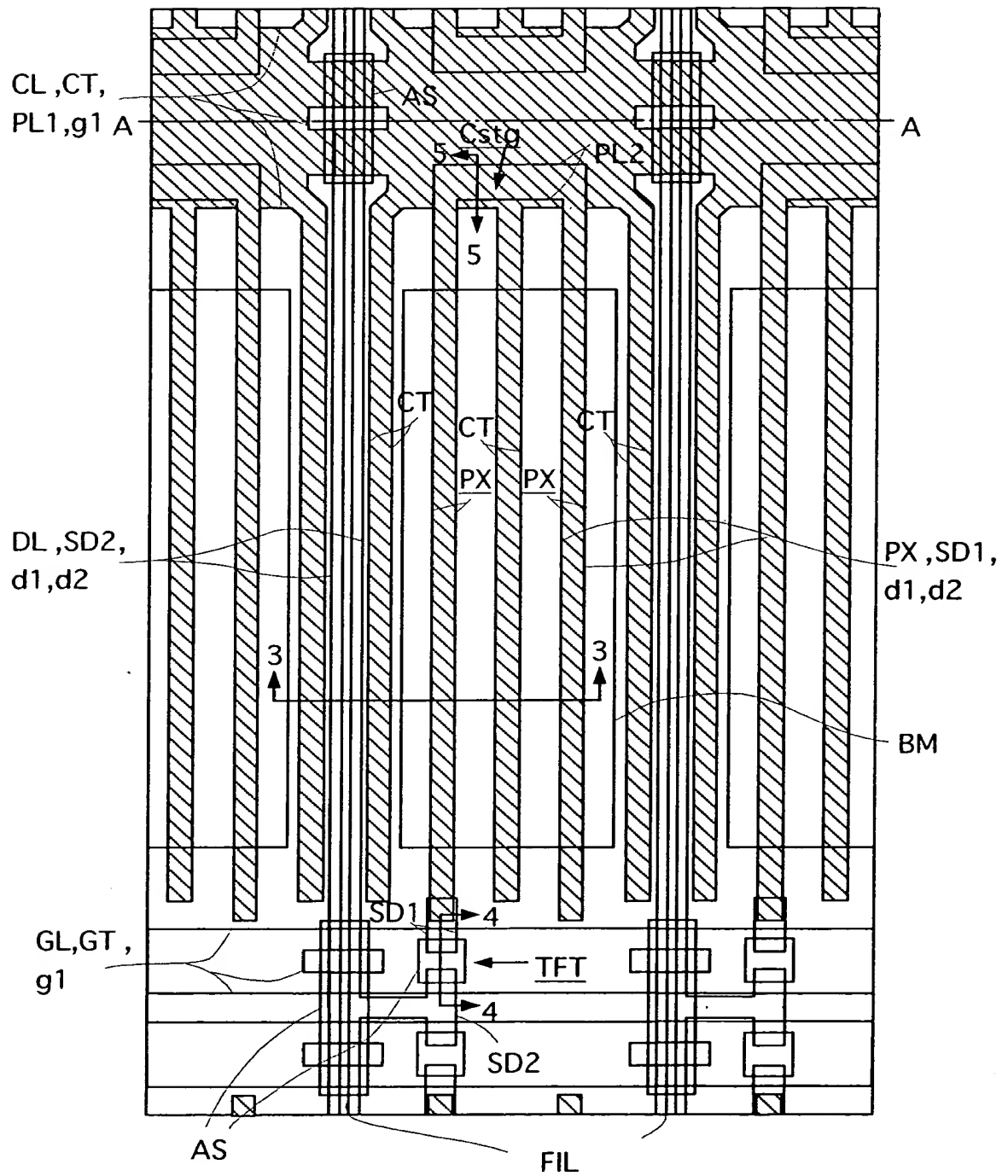


FIG.22

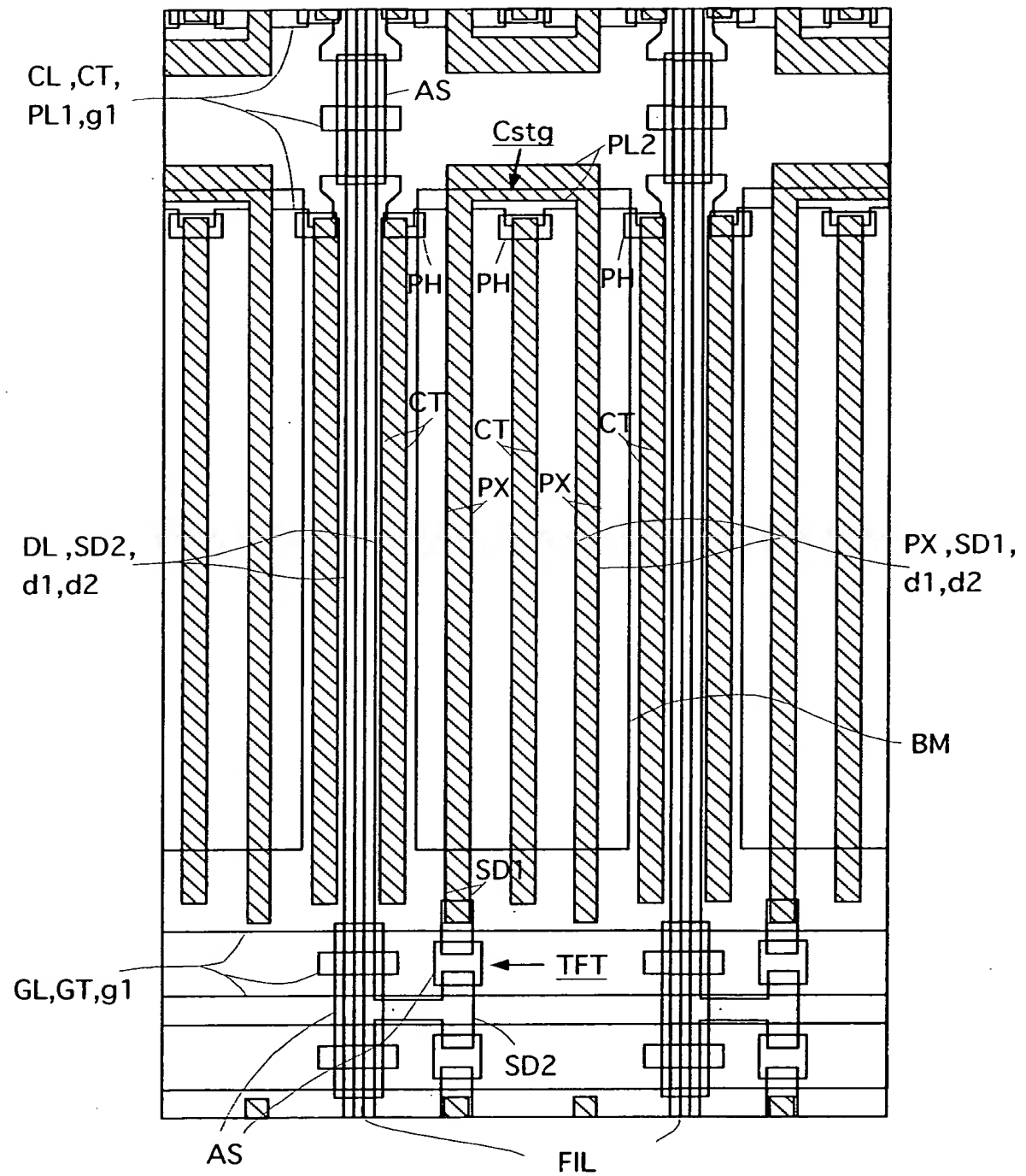


FIG.23

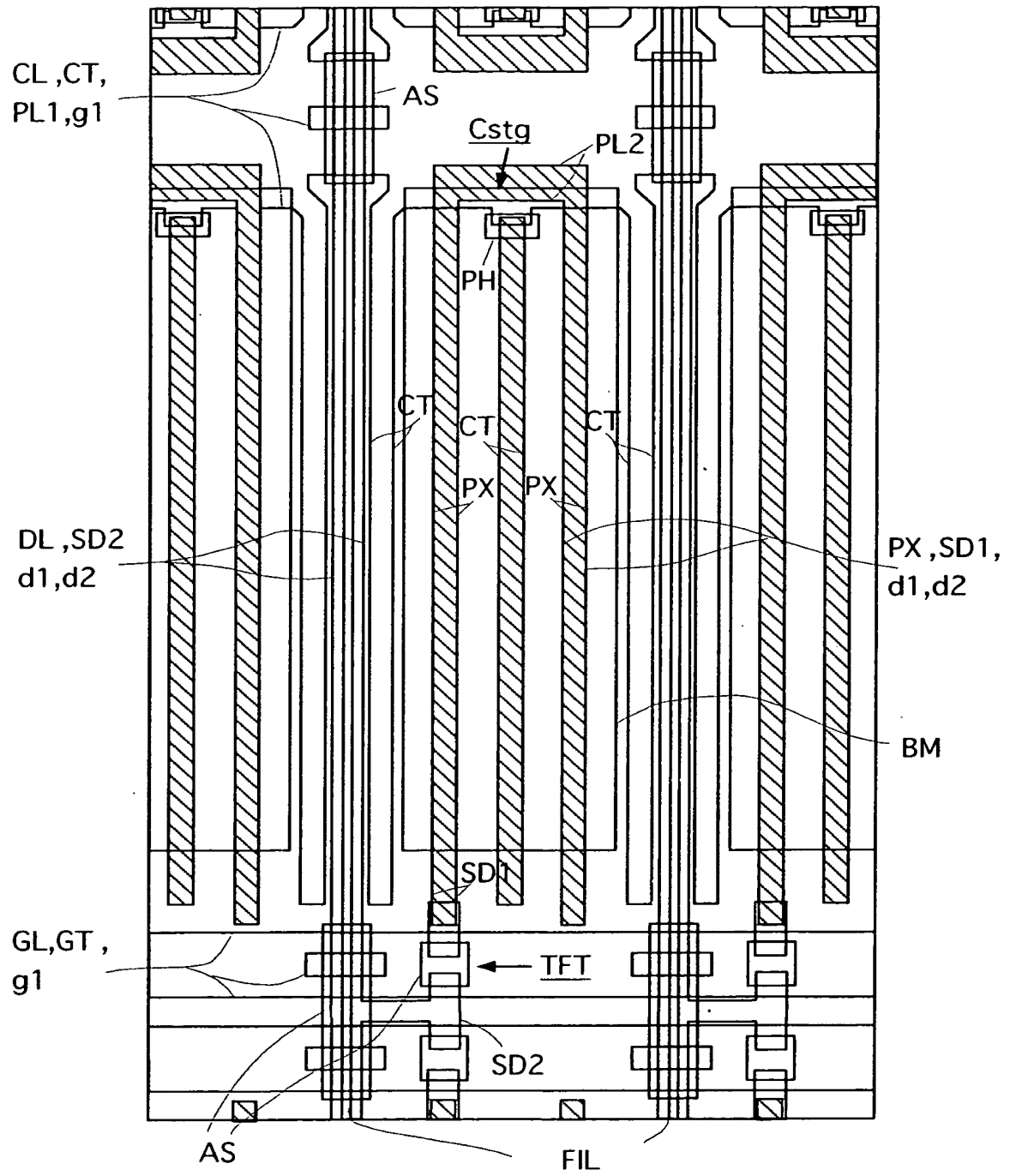


FIG.24A

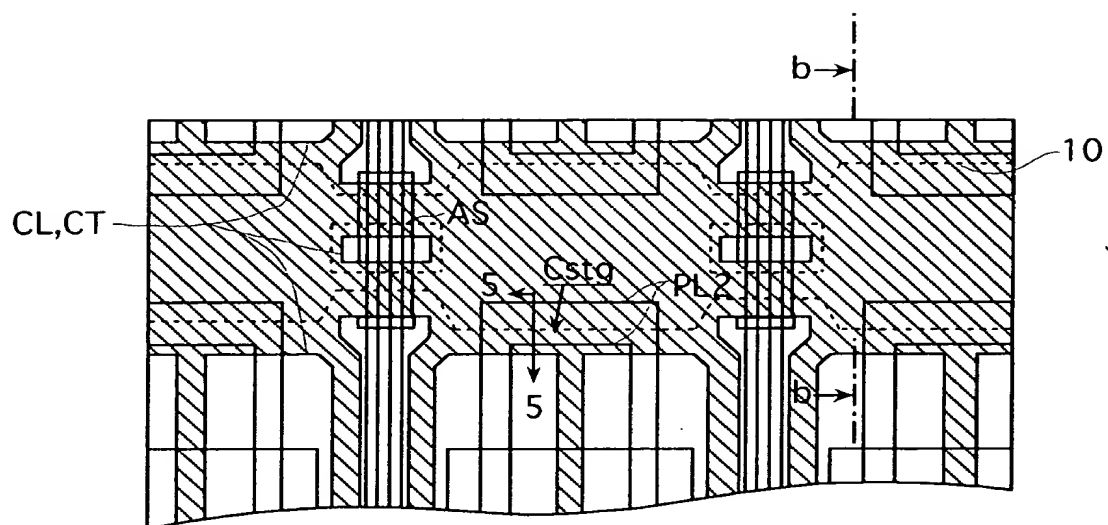


FIG.24B

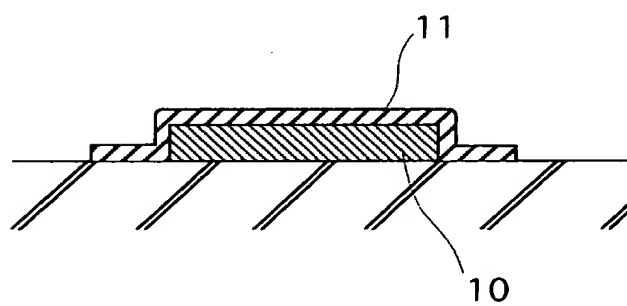


FIG.24C

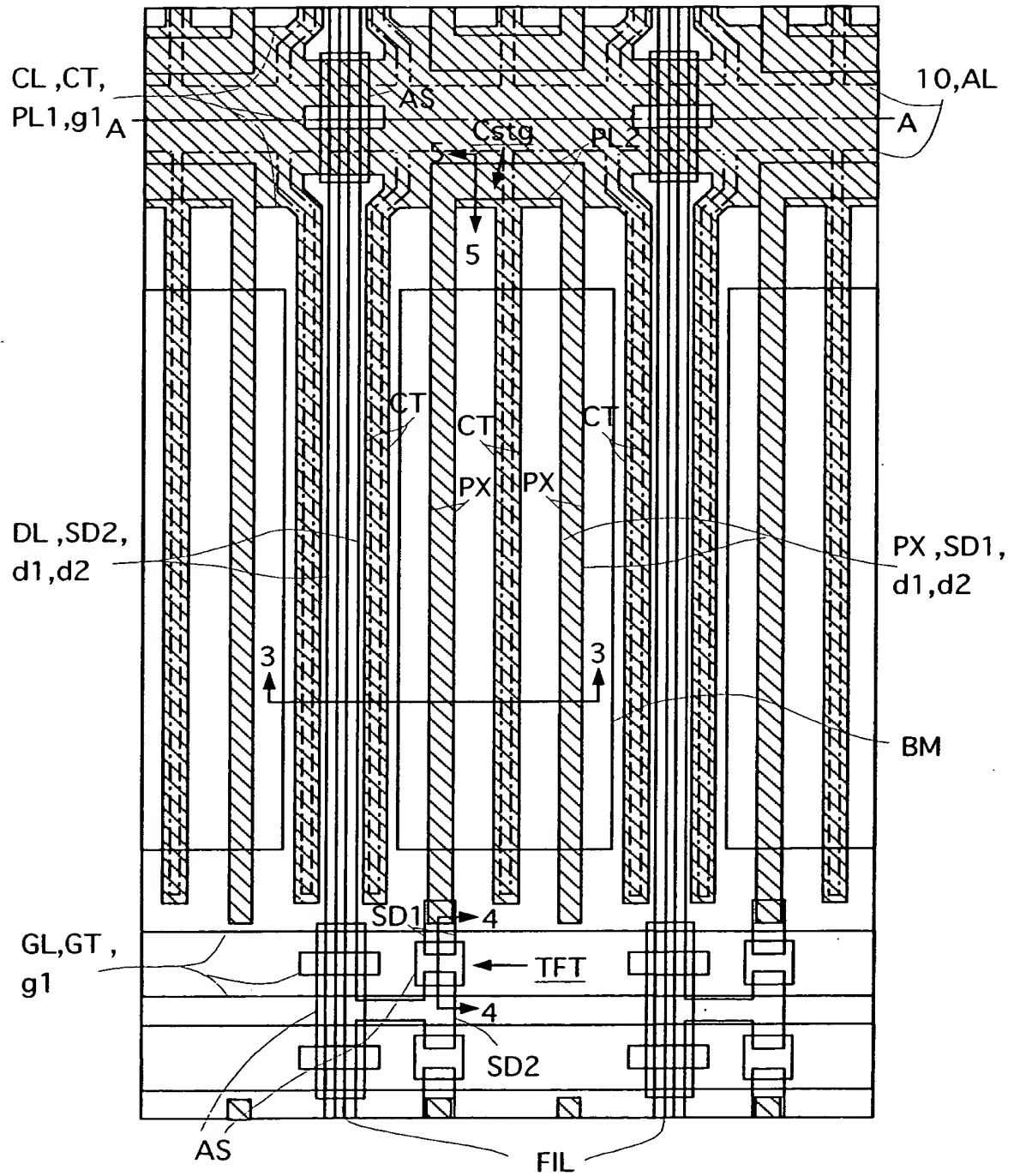


FIG.25

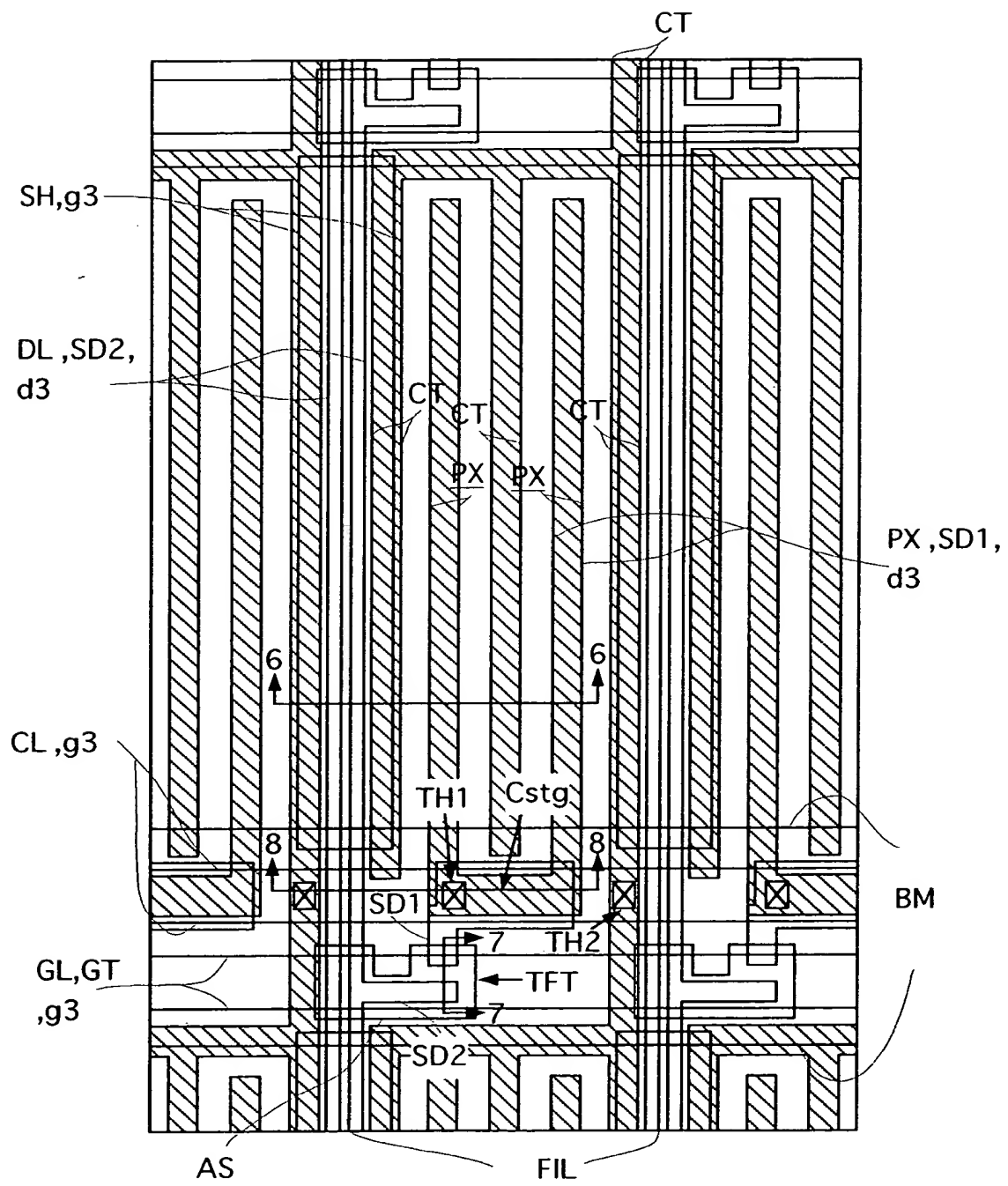


FIG.26

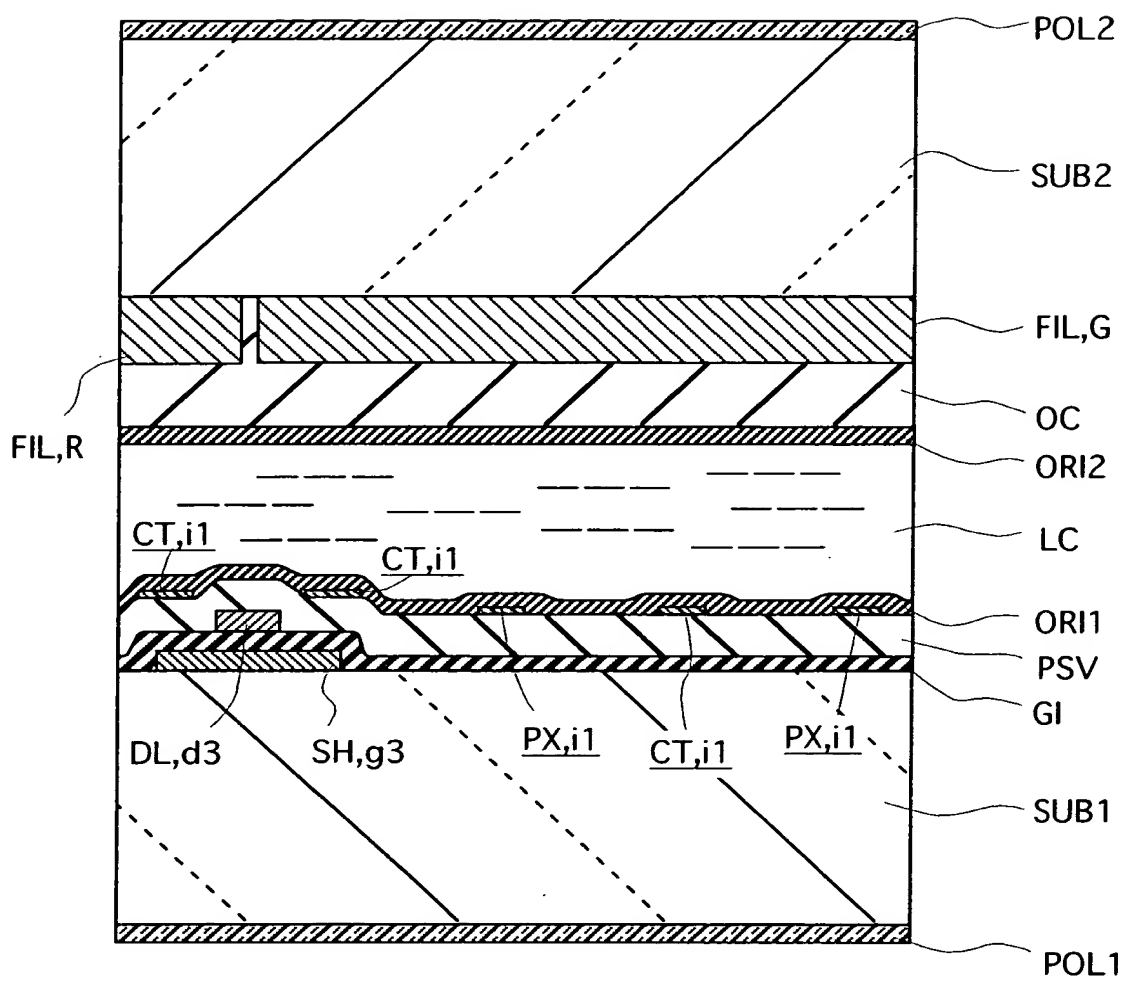


FIG.27

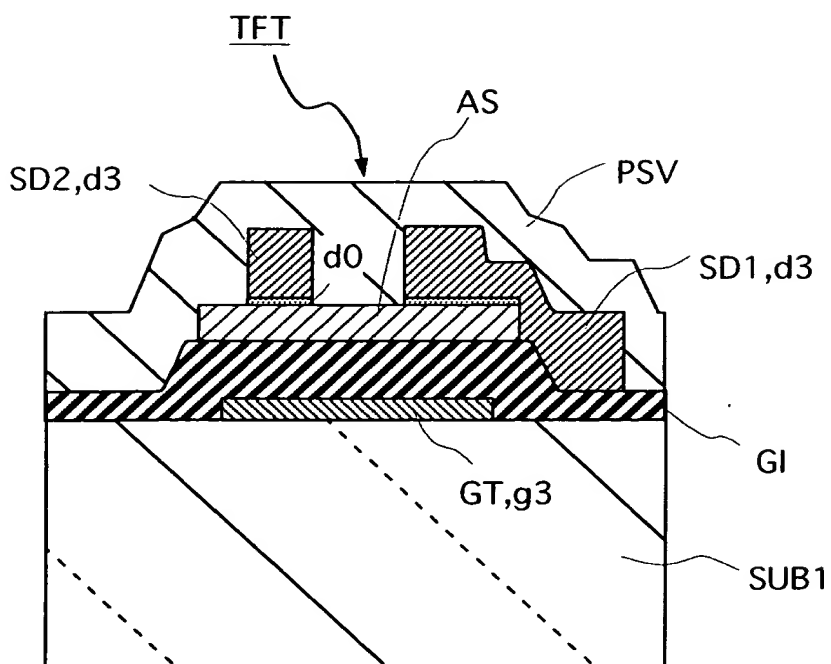


FIG.28

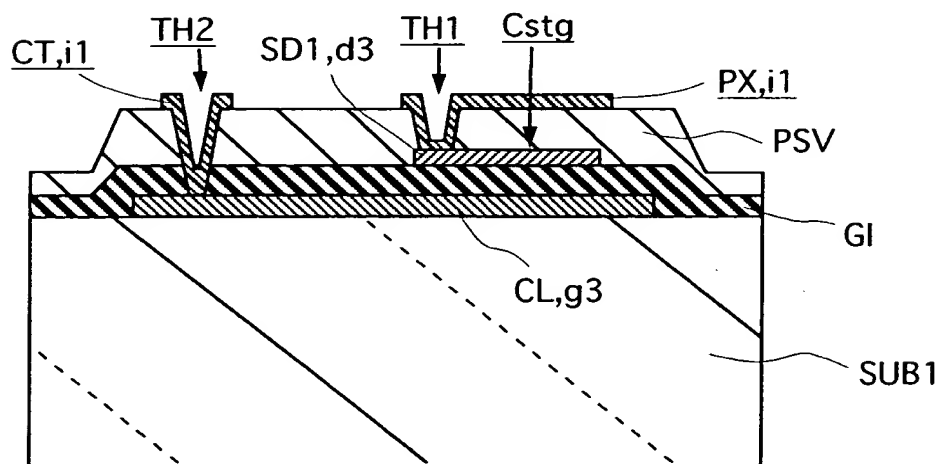


FIG.29A

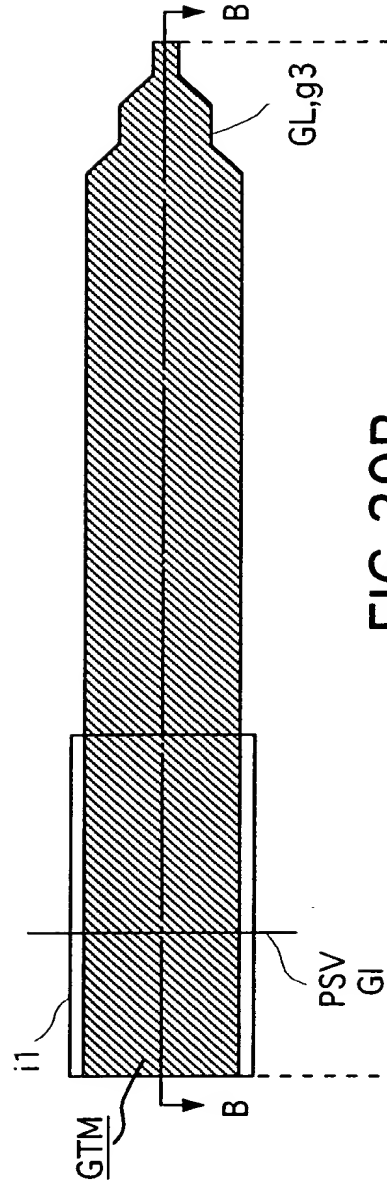


FIG.29B

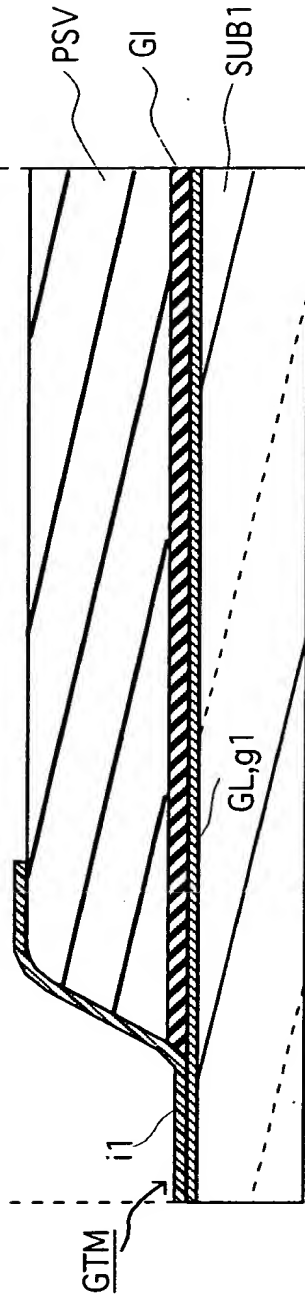


FIG. 30A

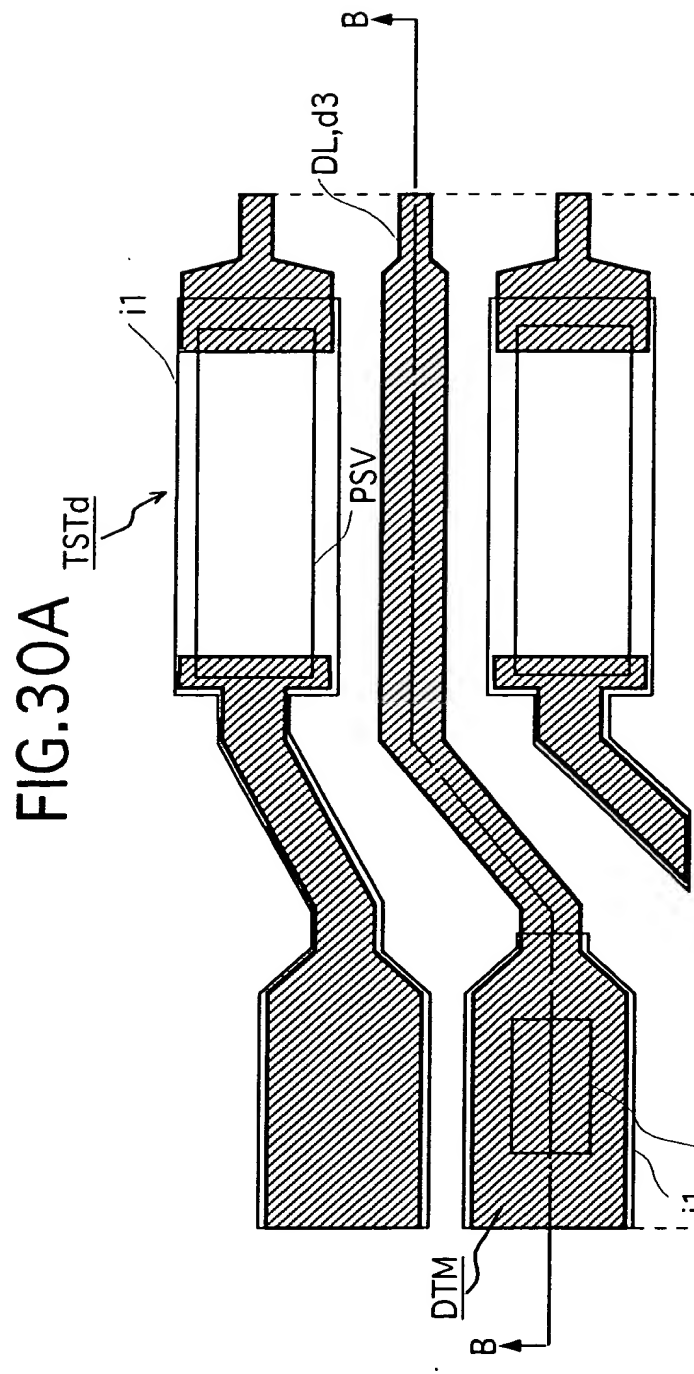


FIG. 30B

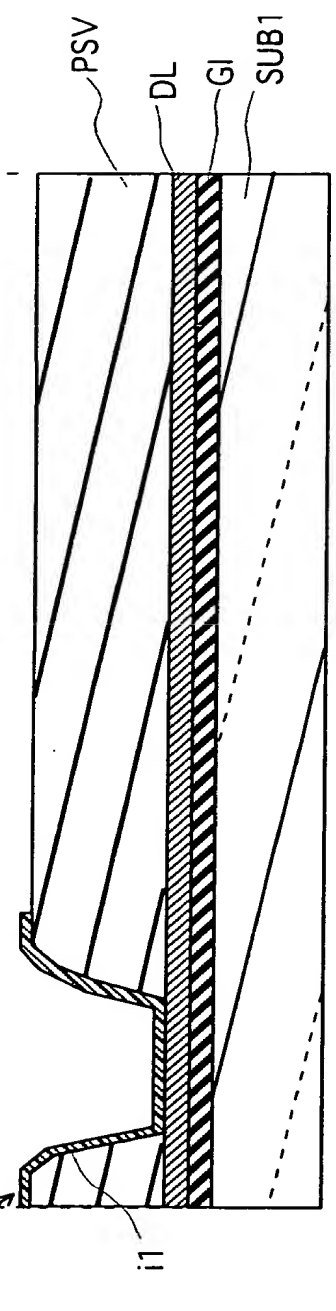


FIG.31A

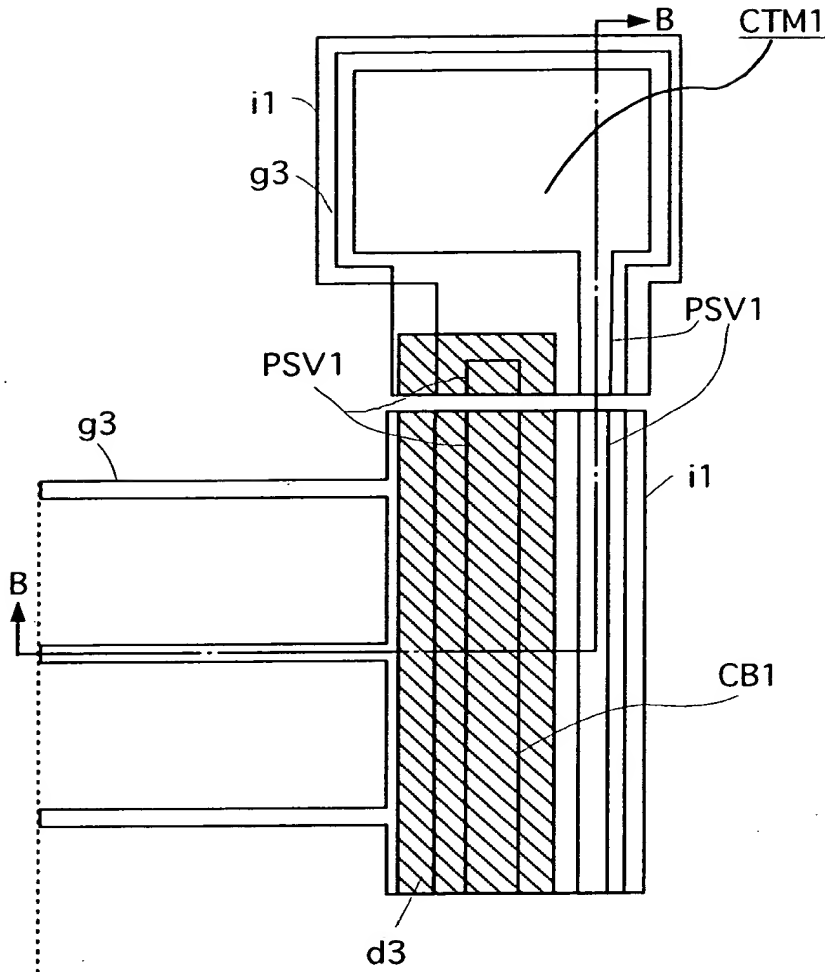


FIG.31B

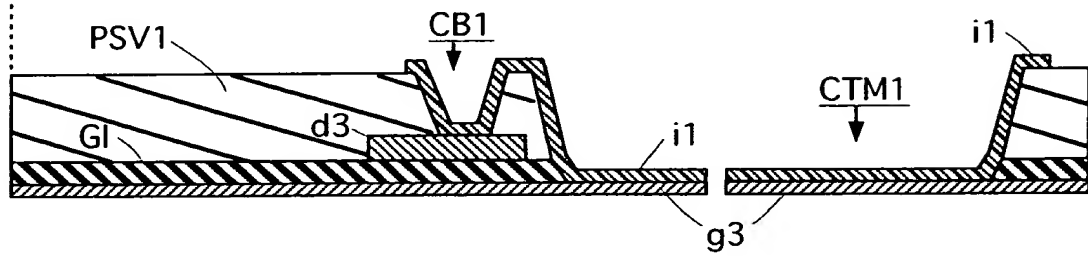


FIG.32A

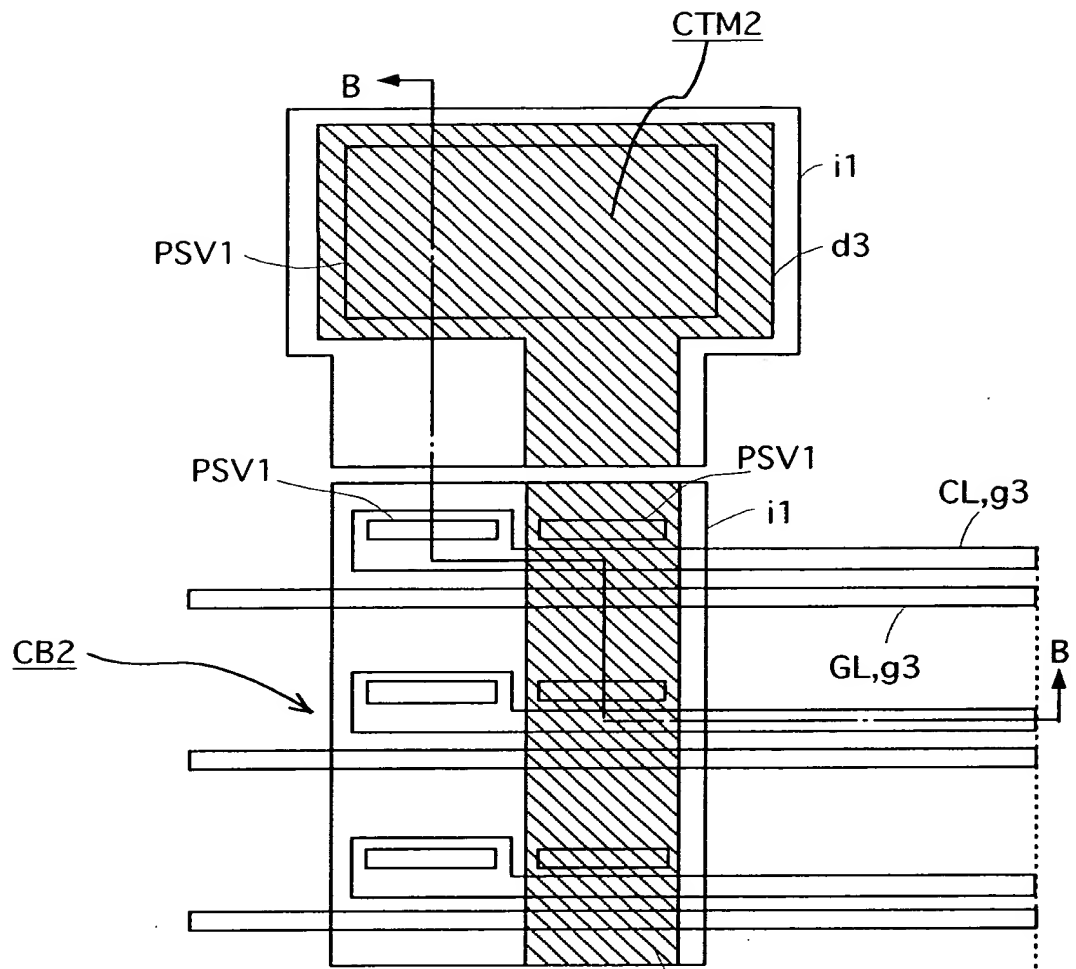


FIG.32B

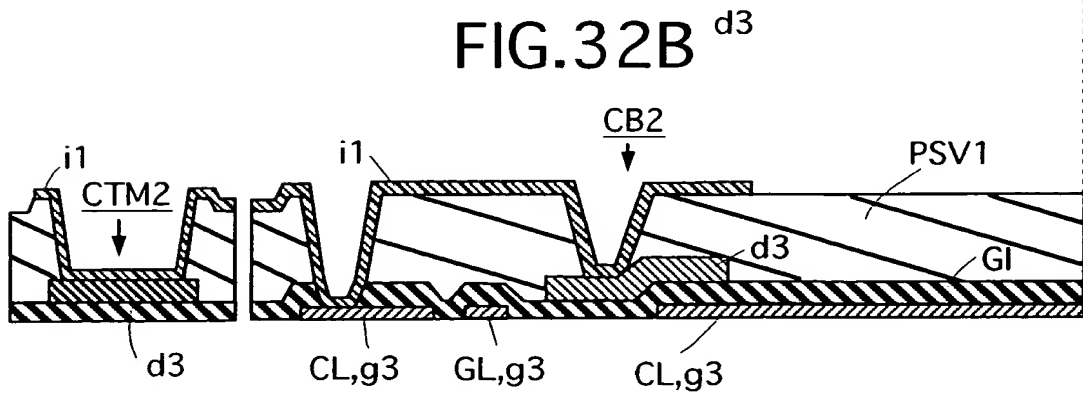


FIG.33

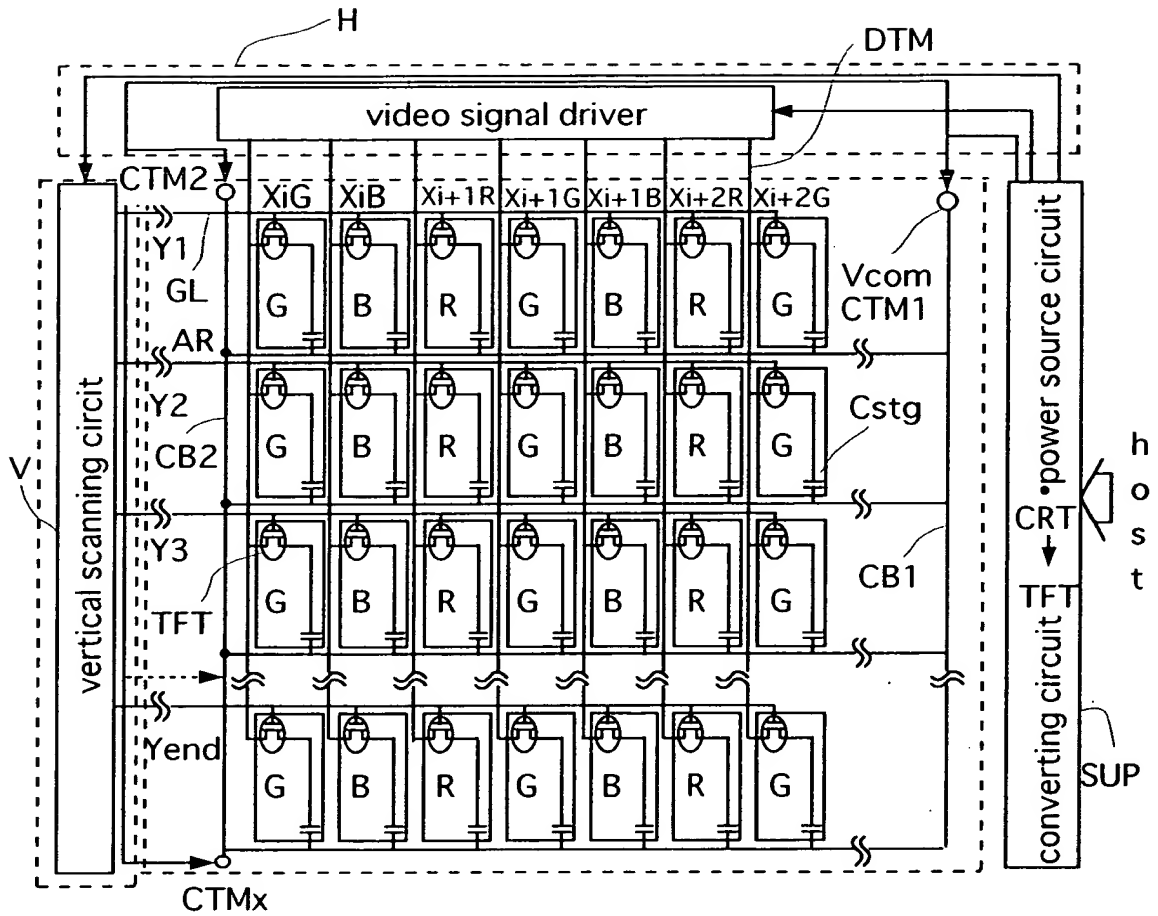


FIG.34

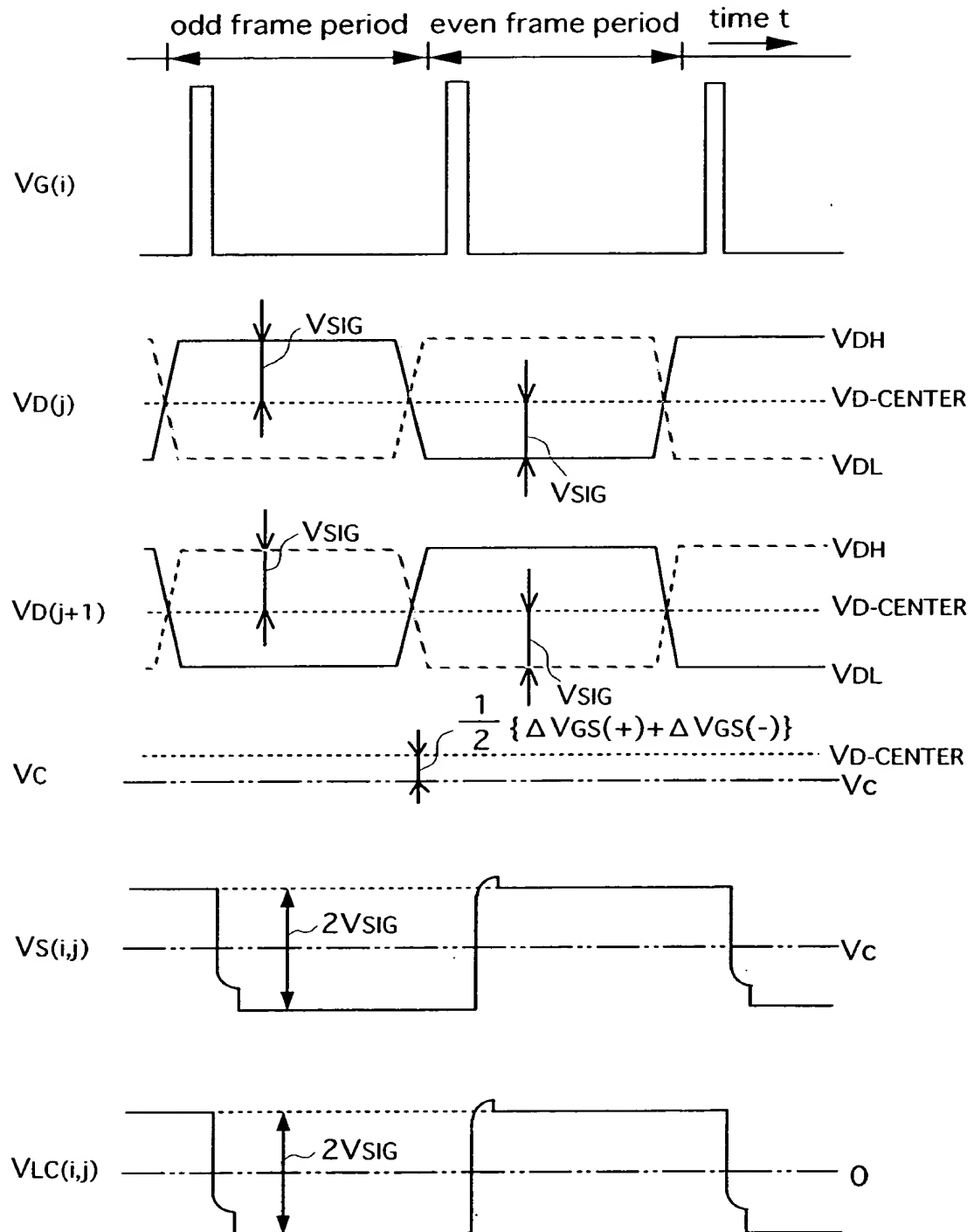


FIG.35

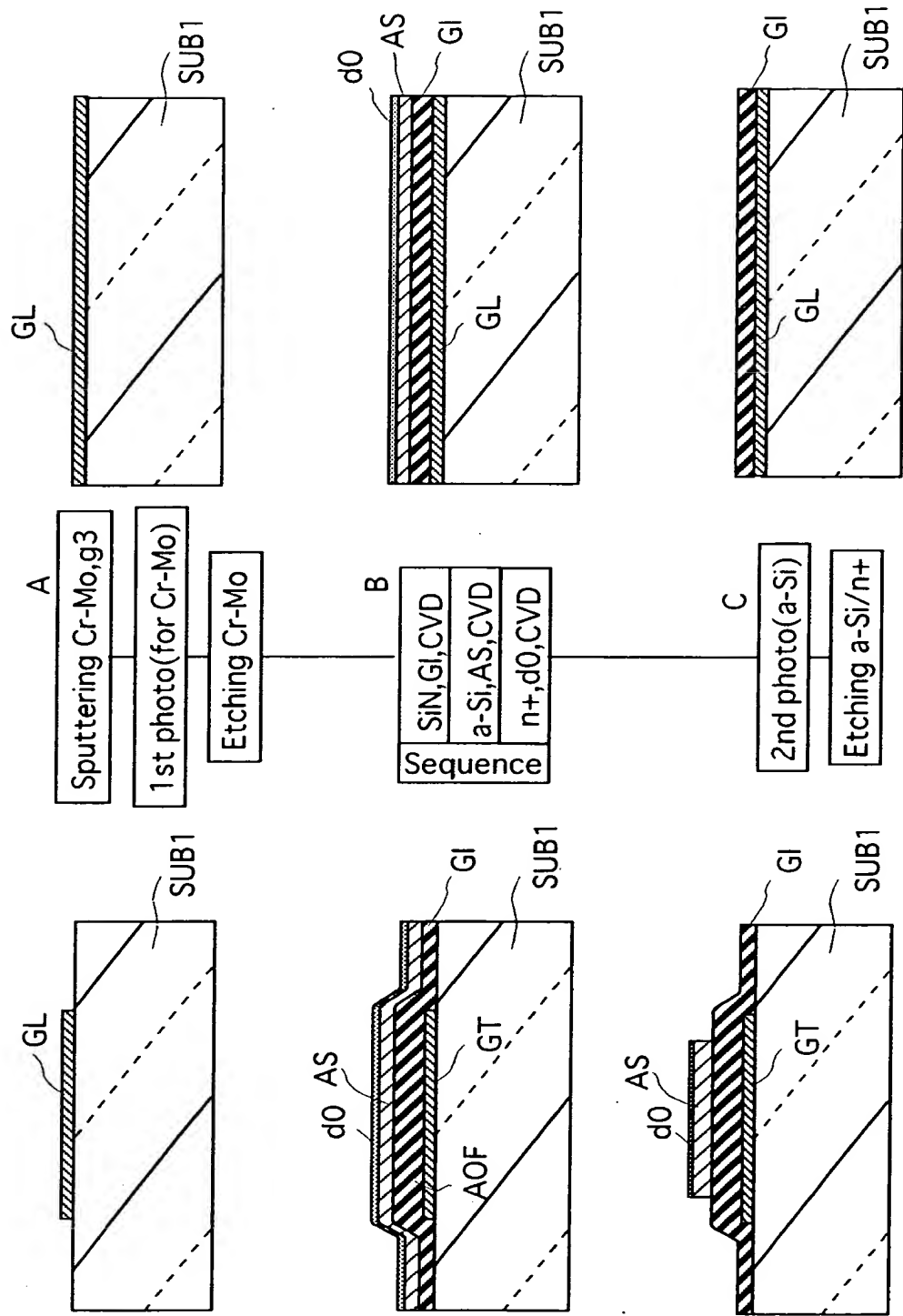


FIG.36

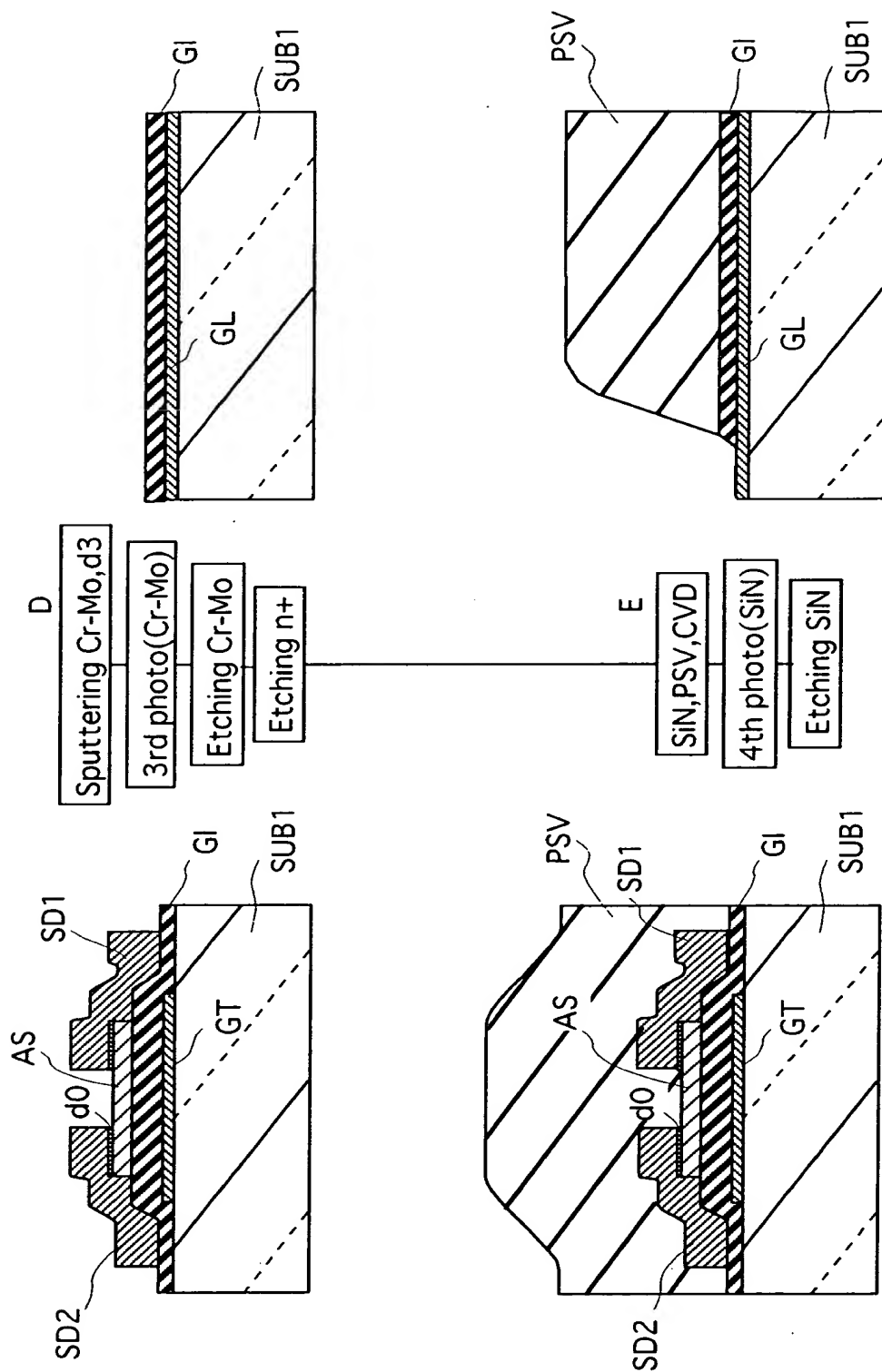


FIG.37

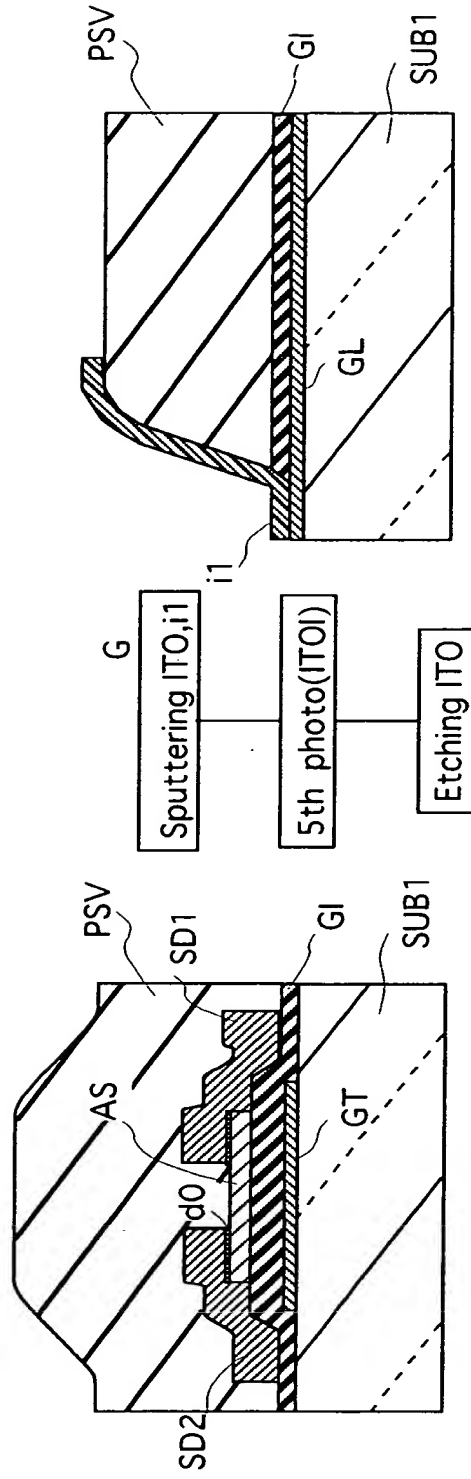


FIG.38

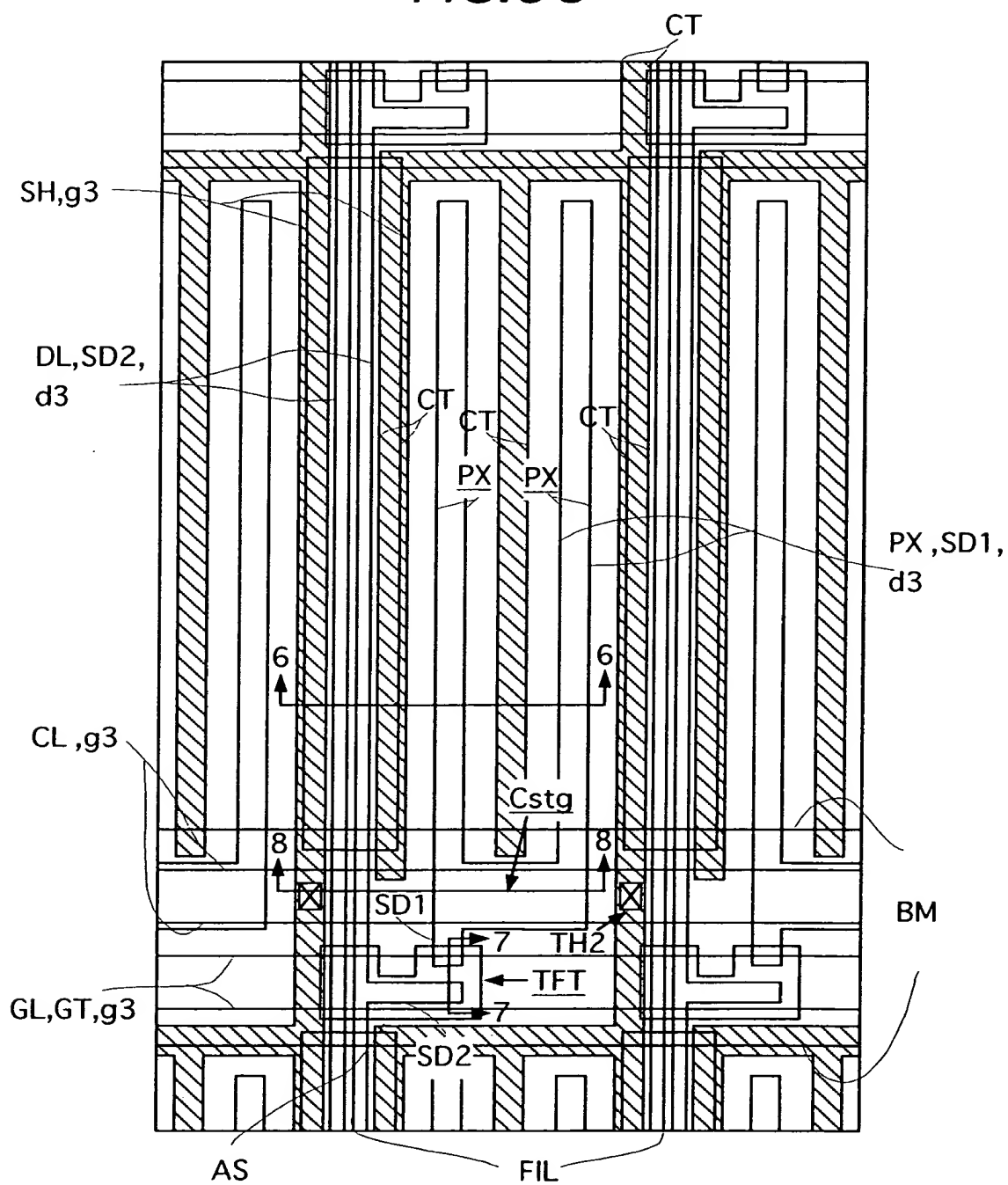


FIG.39

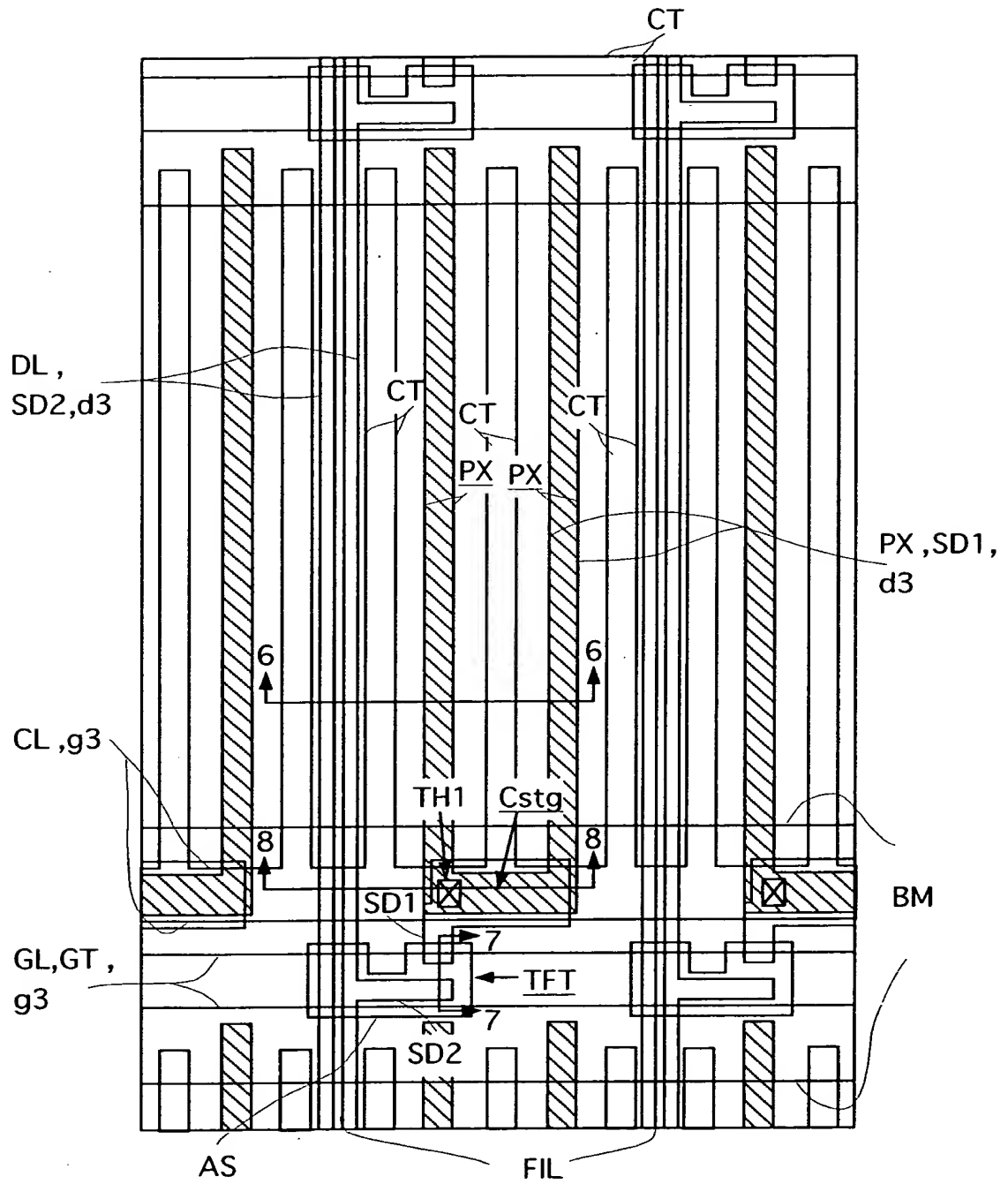


FIG.40

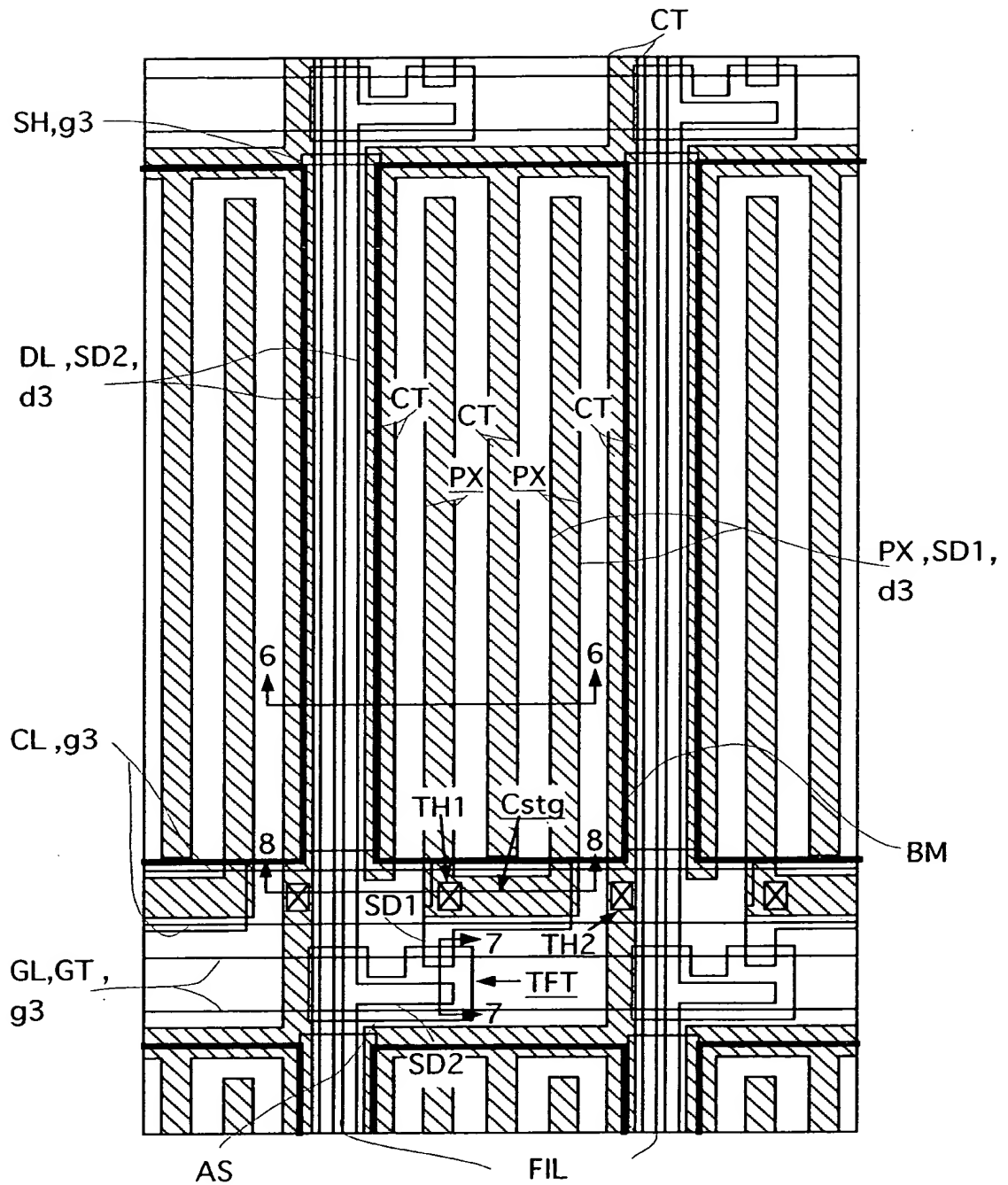


FIG.41A

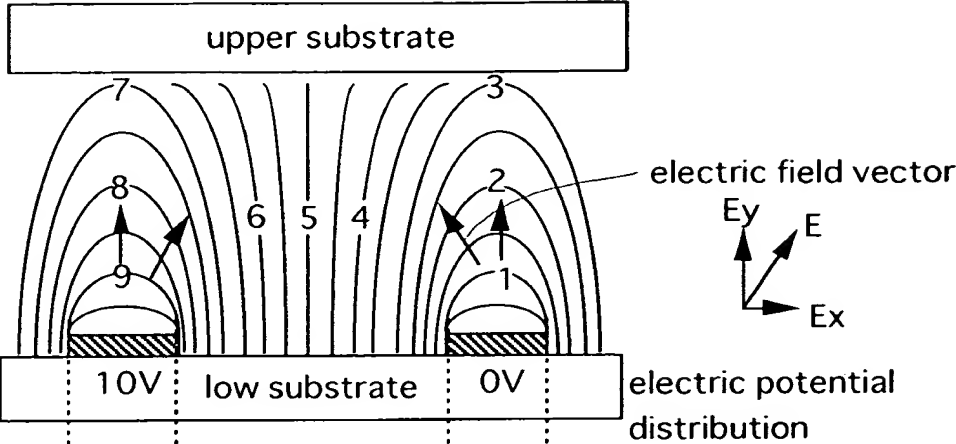


FIG.41B

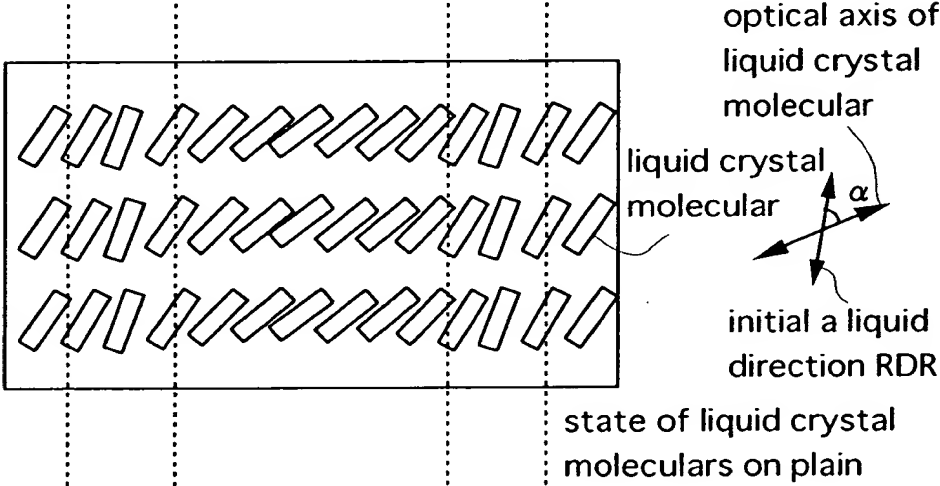


FIG.41C

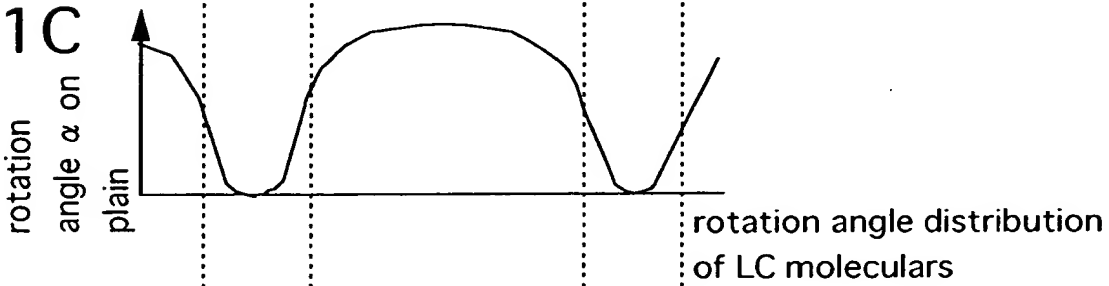


FIG.41D

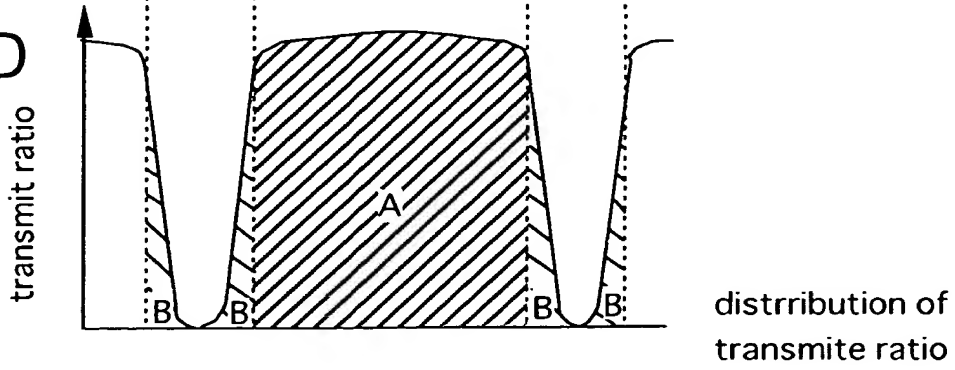
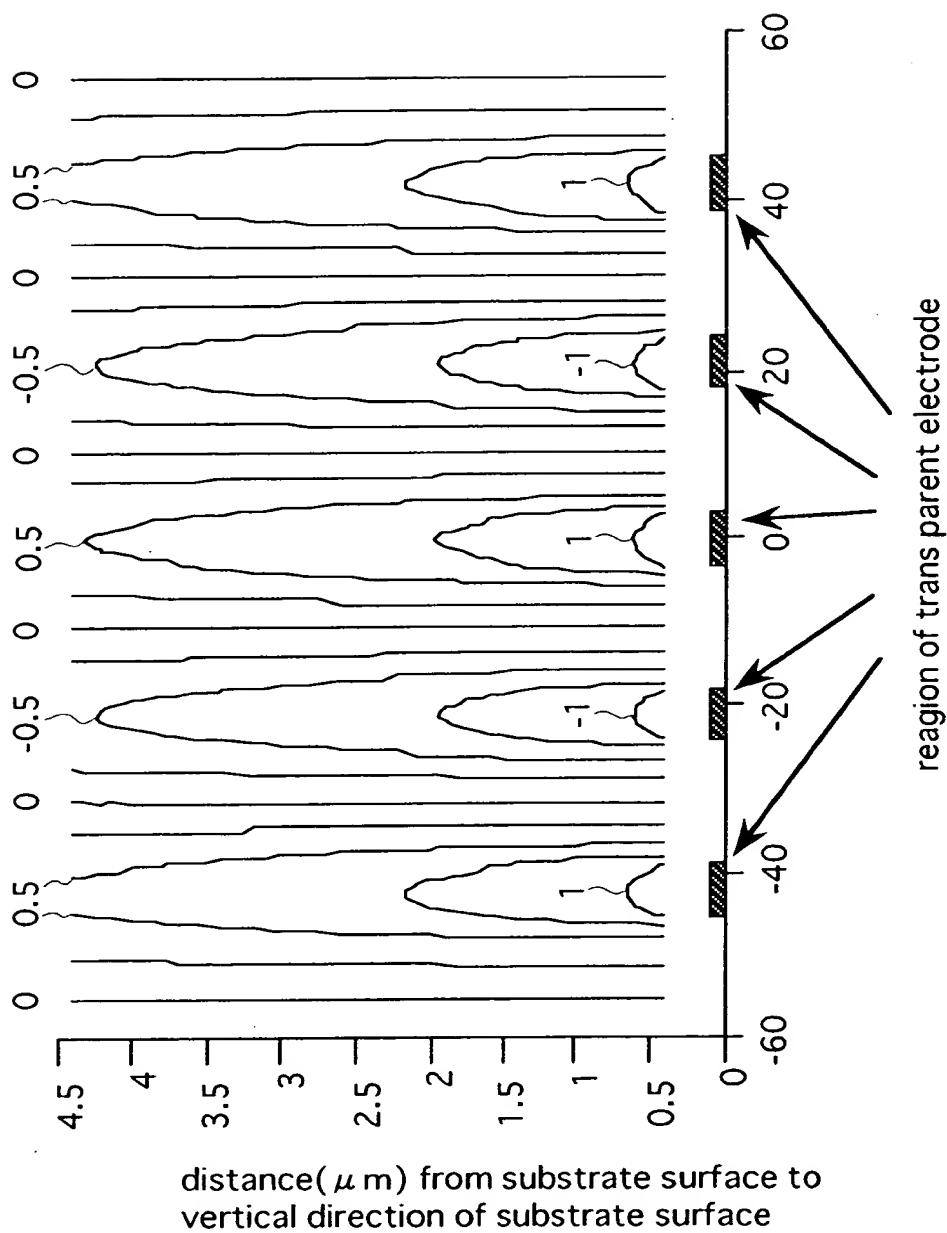


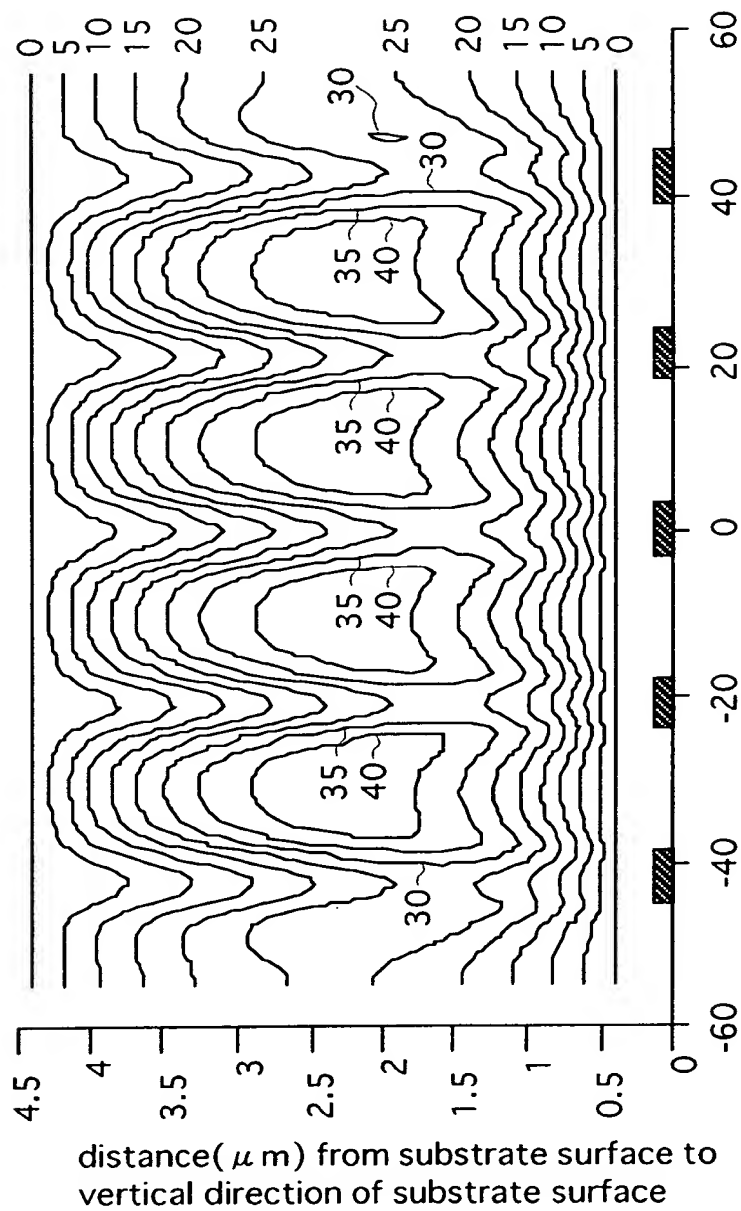
FIG. 42A

FIG. 42A



equipotential curve

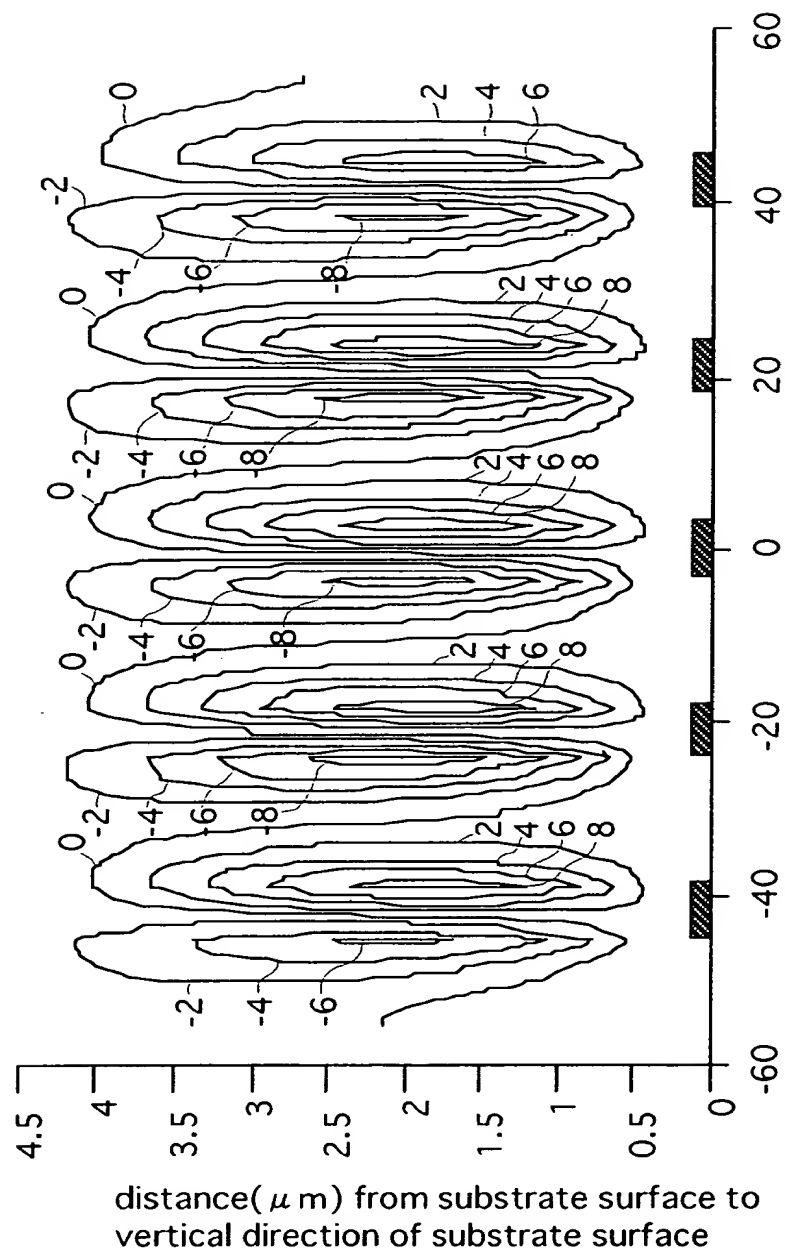
FIG.42B



rotation angle of LC molecules

FIG. 42C

FIG.42C



tilt angle of LC molecules

FIG.43A

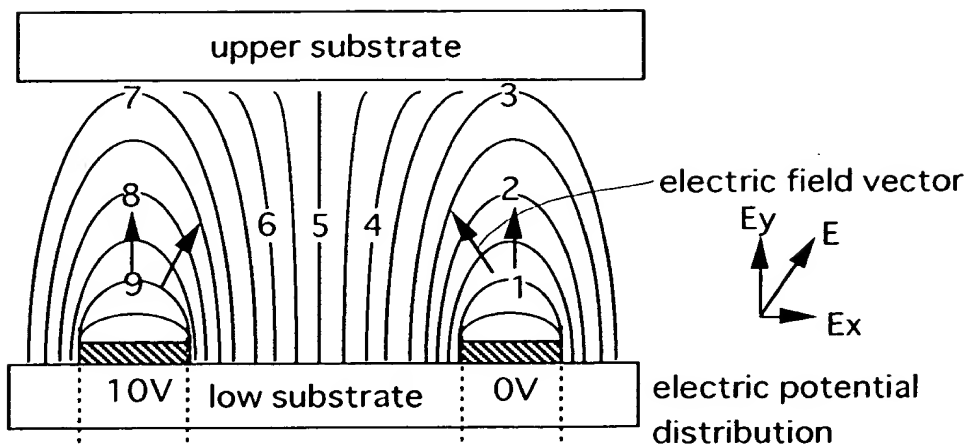


FIG.43B

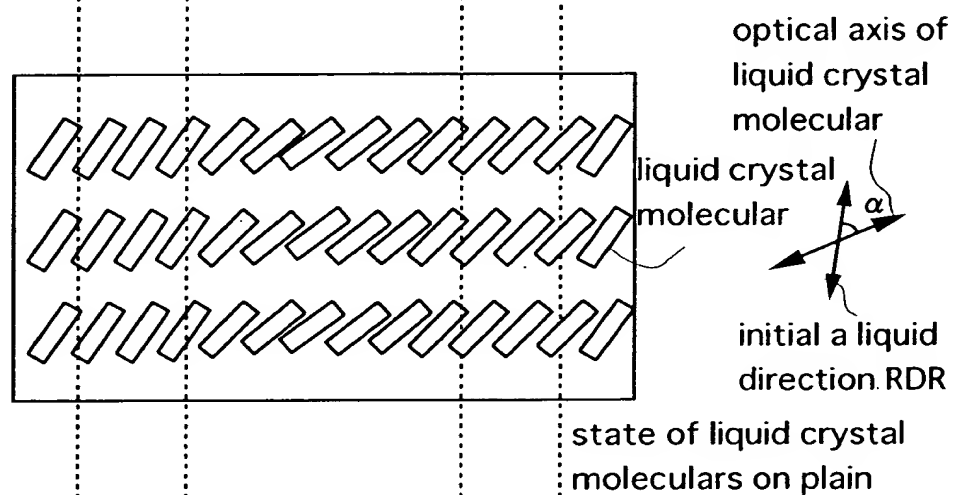


FIG.43C

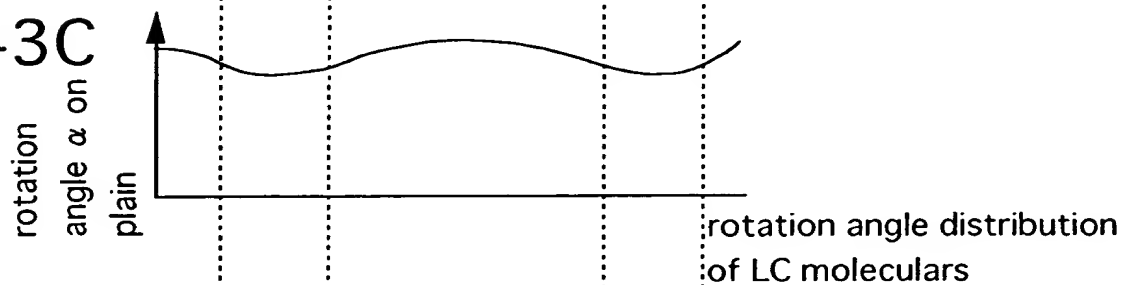


FIG.43D

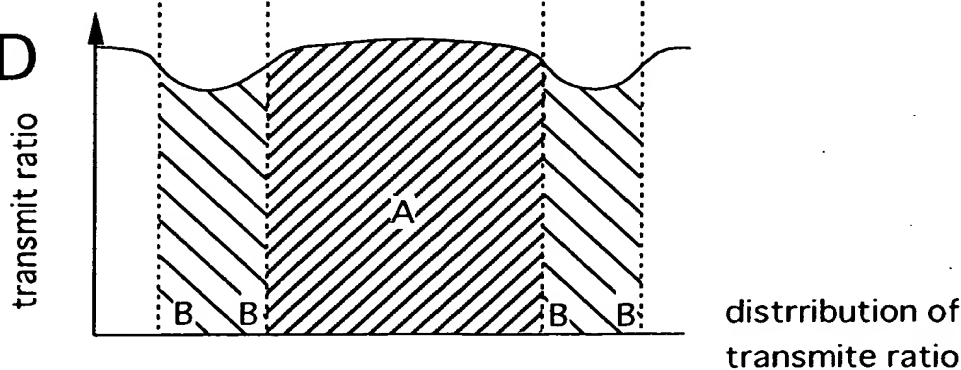


FIG.44

